OIPE IAP25
AUG 28 2006
PATENT & TRADEMARK OFFICE

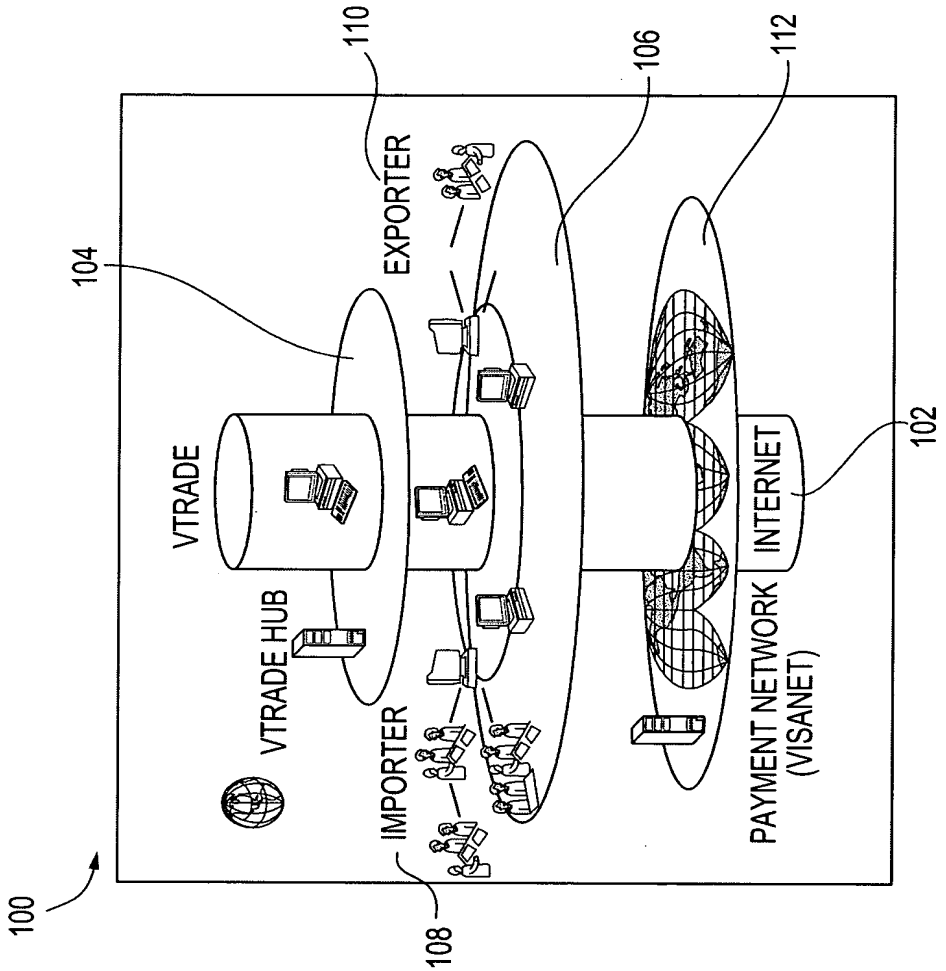


Figure 1

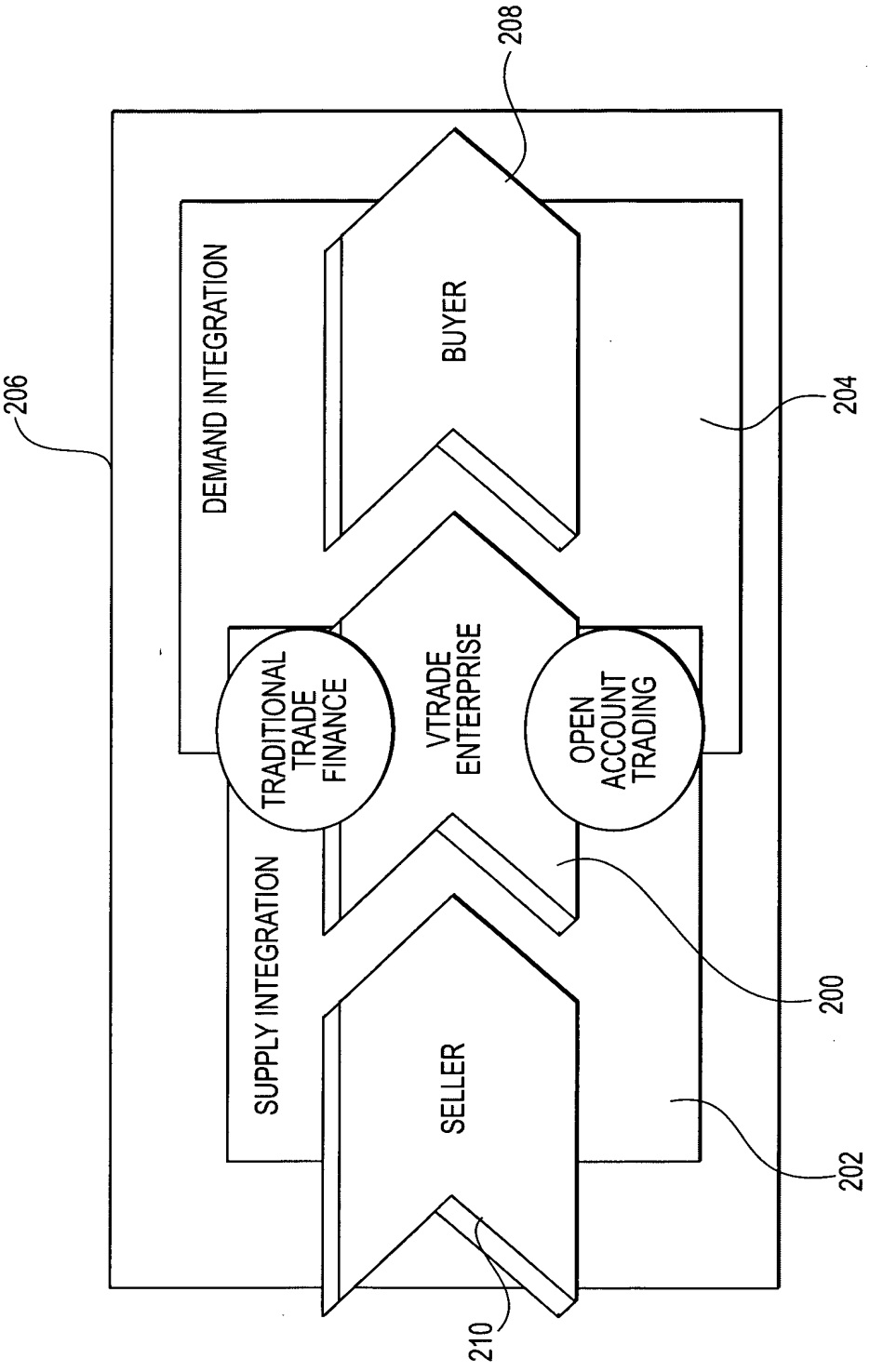

208
206
DEMAND INTEGRATION
BUYER
204
TRADITIONAL TRADE FINANCE
VTRADE ENTERPRISE
OPEN ACCOUNT TRADING
SUPPLY INTEGRATION
200
SELLER
202
210

Figure 2

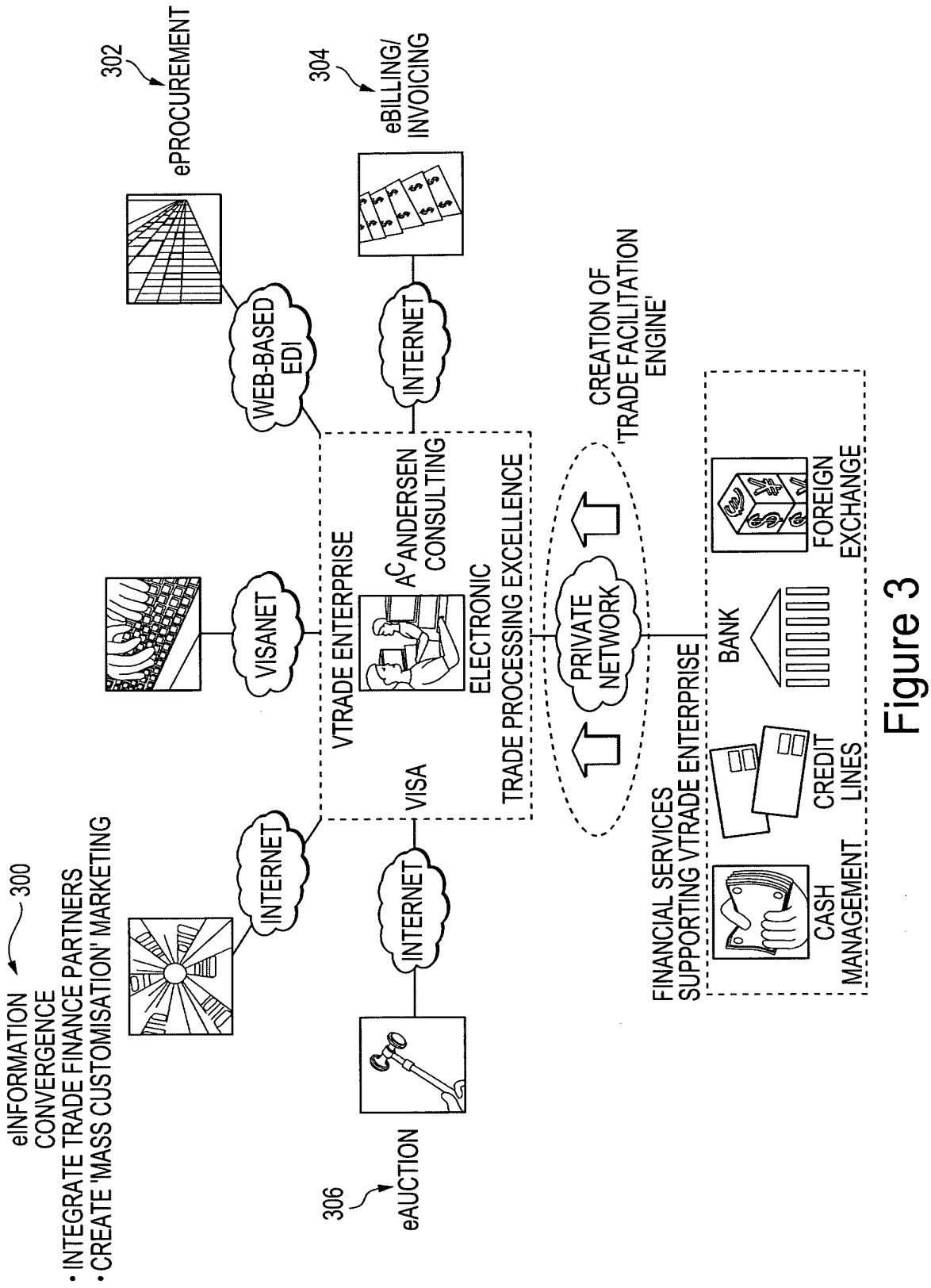

300
eINFORMATION CONVERGENCE
• INTEGRATE TRADE FINANCE PARTNERS
• CREATE 'MASS CUSTOMISATION' MARKETING
INTERNET
INTERNET
VISANET
WEB-BASED EDI
INTERNET
302
ePROCUREMENT
304
eBILLING/ INVOICING
306
eAUCTION
VISA
VTRADE ENTERPRISE
TRADE PROCESSING EXCELLENCE
ACANDERSEN CONSULTING
ELECTRONIC
PRIVATE NETWORK
CREATION OF 'TRADE FACILITATION ENGINE'
FINANCIAL SERVICES SUPPORTING VTRADE ENTERPRISE
BANK
FOREIGN EXCHANGE
CREDIT LINES
CASH MANAGEMENT

Figure 3

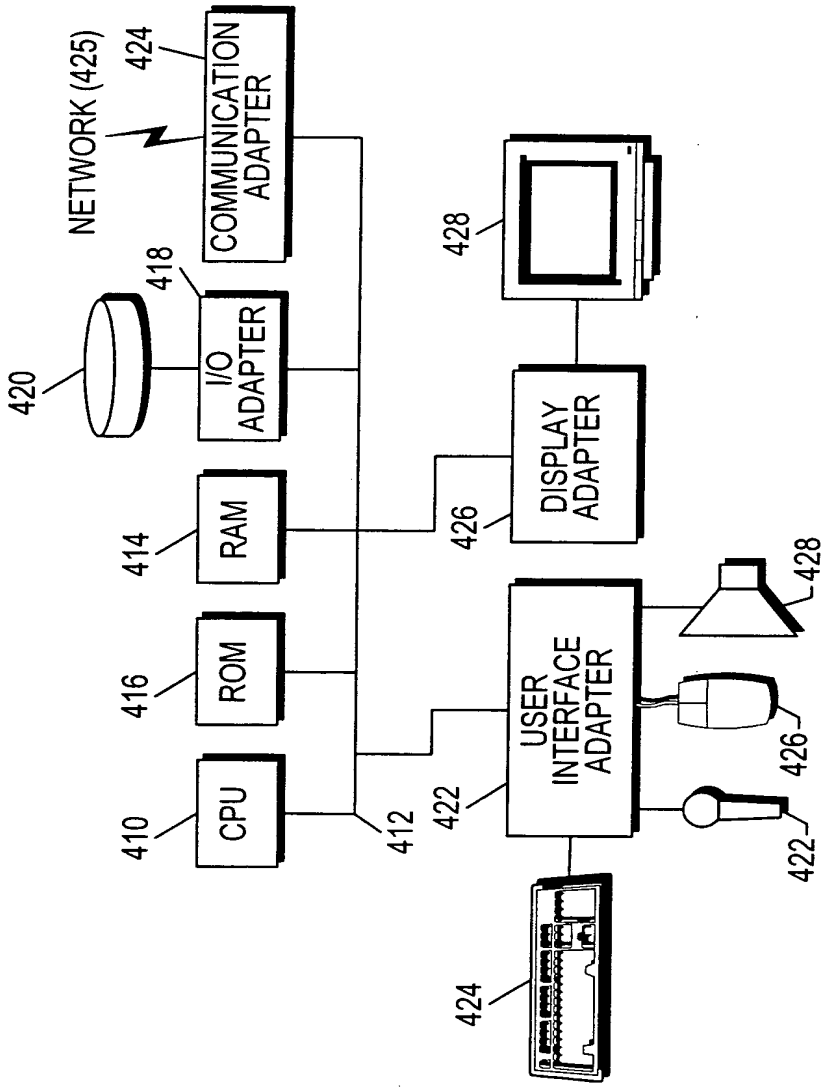

NETWORK (425)
424
COMMUNICATION ADAPTER
418
I/O ADAPTER
420
414
RAM
416
ROM
410
CPU
412
428
DISPLAY ADAPTER
426
USER INTERFACE ADAPTER
422
428
426
422
424

Figure 4

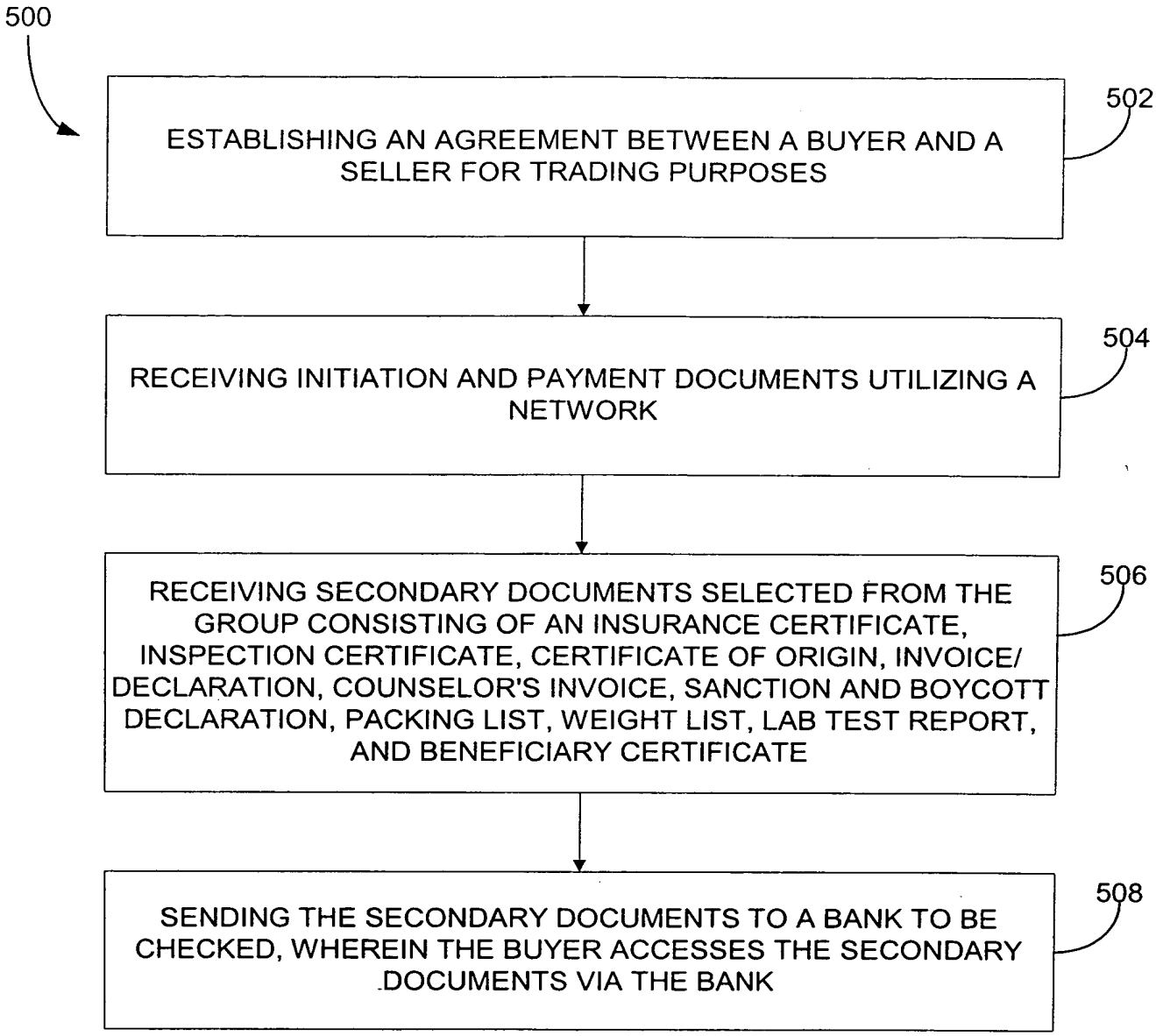

500
ESTABLISHING AN AGREEMENT BETWEEN A BUYER AND A SELLER FOR TRADING PURPOSES
502
RECEIVING INITIATION AND PAYMENT DOCUMENTS UTILIZING A NETWORK
504
RECEIVING SECONDARY DOCUMENTS SELECTED FROM THE GROUP CONSISTING OF AN INSURANCE CERTIFICATE, INSPECTION CERTIFICATE, CERTIFICATE OF ORIGIN, INVOICE/ DECLARATION, COUNSELOR'S INVOICE, SANCTION AND BOYCOTT DECLARATION, PACKING LIST, WEIGHT LIST, LAB TEST REPORT, AND BENEFICIARY CERTIFICATE
506
SENDING THE SECONDARY DOCUMENTS TO A BANK TO BE CHECKED, WHEREIN THE BUYER ACCESSES THE SECONDARY DOCUMENTS VIA THE BANK
508

Figure 5

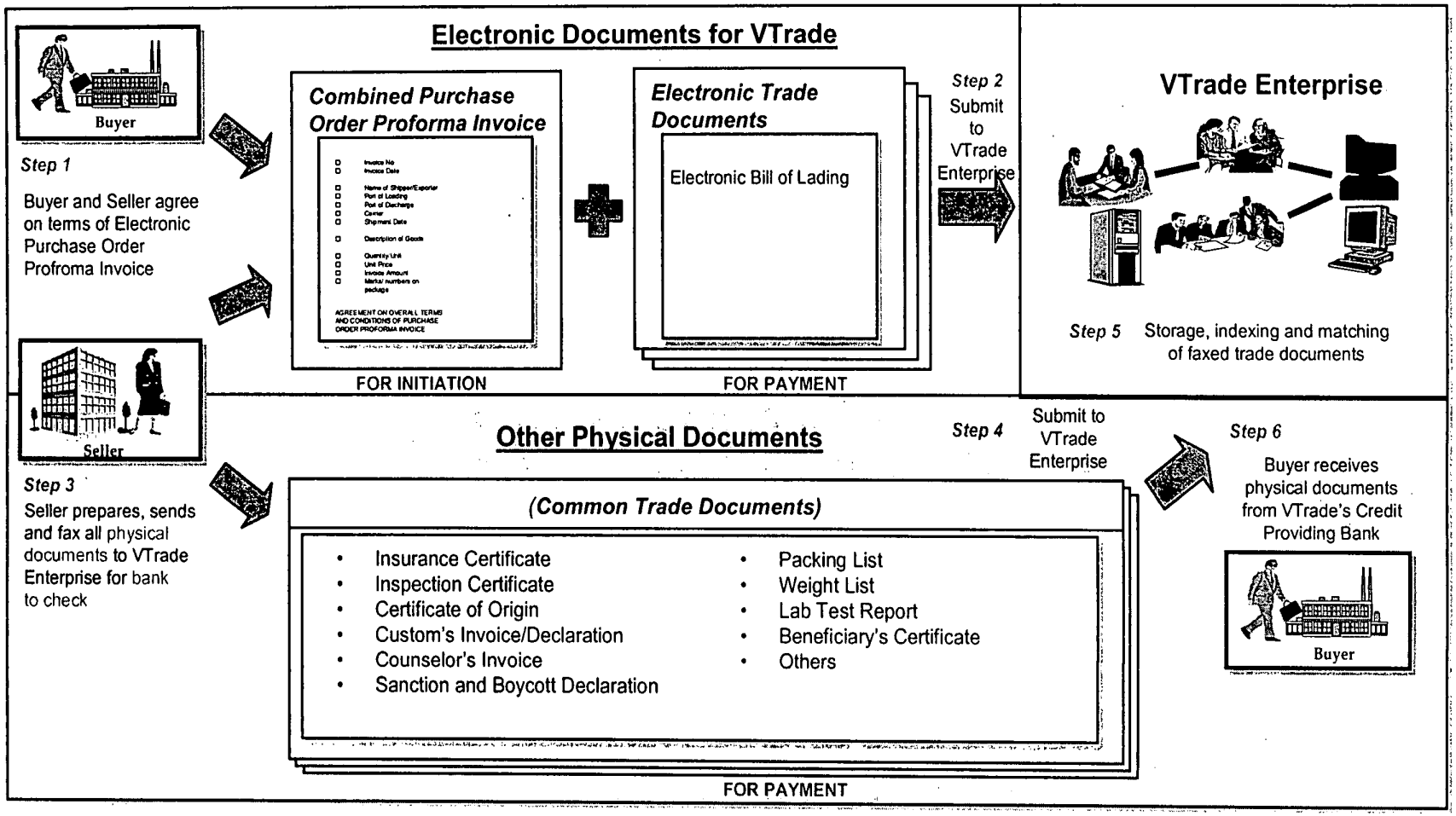


Figure 6

Replacement Sheet

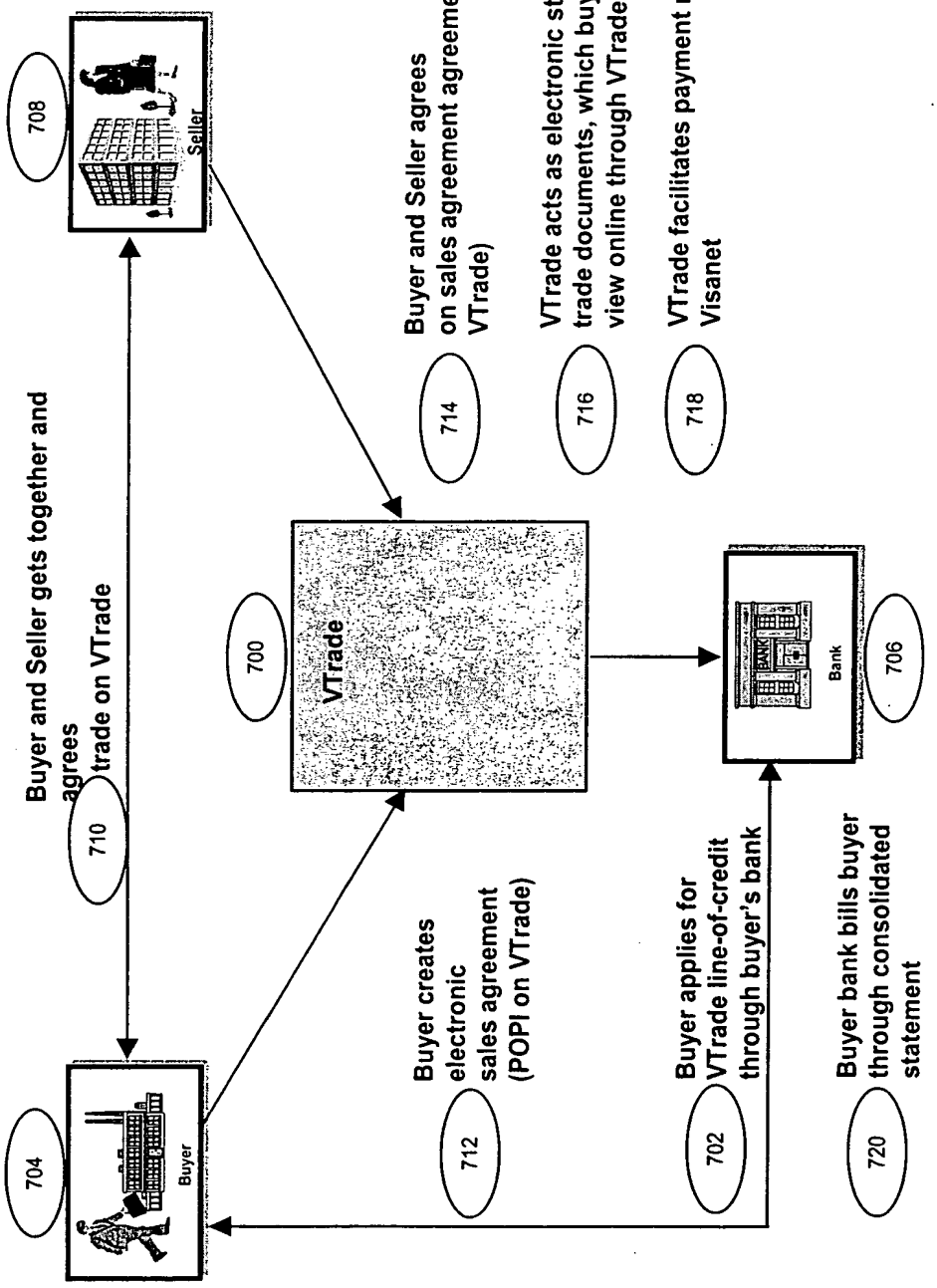

Buyer
Seller
Bank
VTrade
704
708
706
700
710
Buyer and Seller gets together and agrees trade on VTrade
712
Buyer creates electronic sales agreement (POPI on VTrade)
714
Buyer and Seller agrees on sales agreement agreement (POPI on VTrade)
716
VTrade acts as electronic storage of faxed trade documents, which buyer and bank can view online through VTrade
718
VTrade facilitates payment release through Visanet
702
Buyer applies for VTrade line-of-credit through buyer's bank
720
Buyer bank bills buyer through consolidated statement

Figure 7

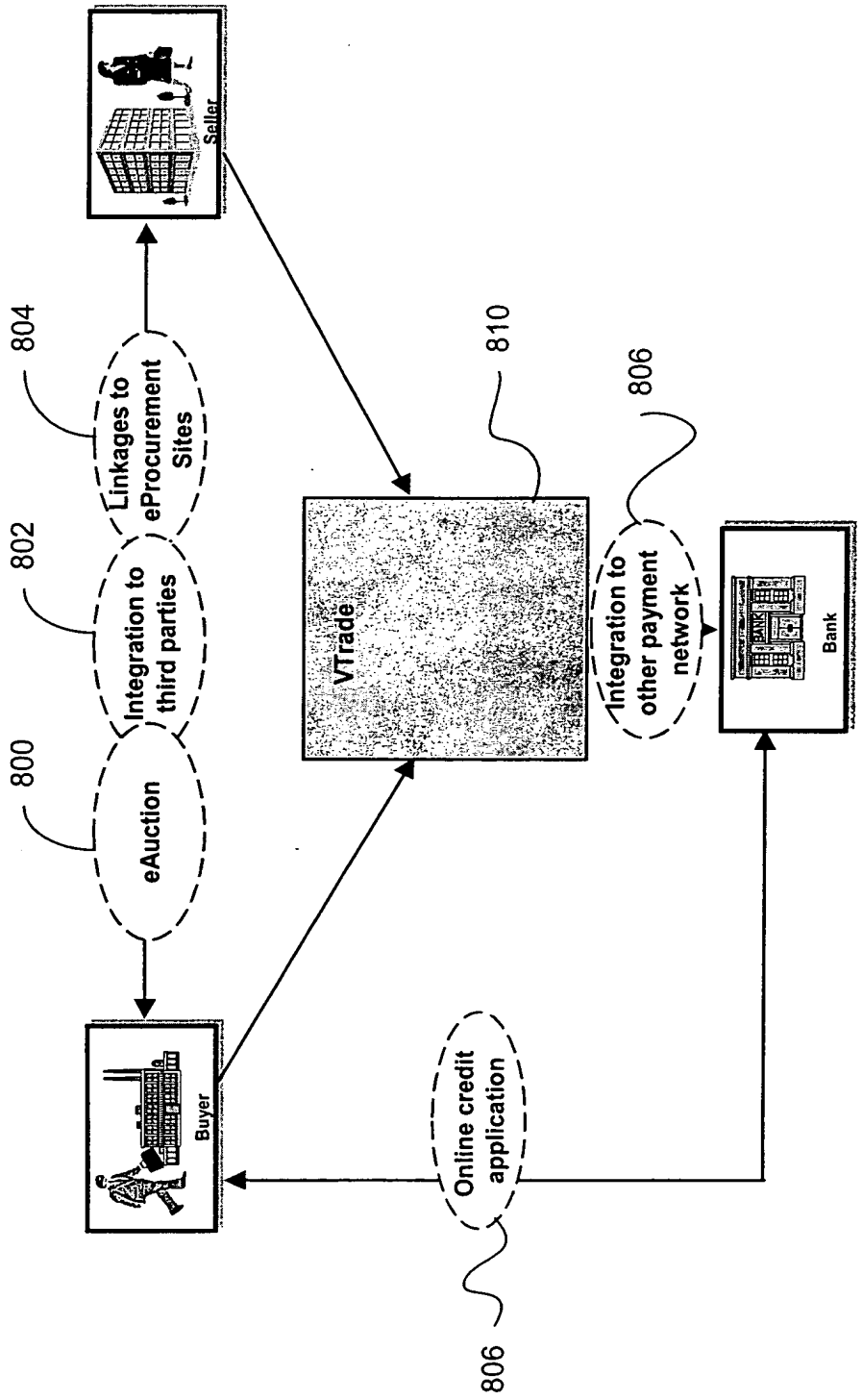

Seller
804
Linkages to eProcurement Sites
802
Integration to third parties
800
eAuction
Buyer
VTrade
810
806
Integration to other payment network
Bank
Online credit application
806

Figure 8

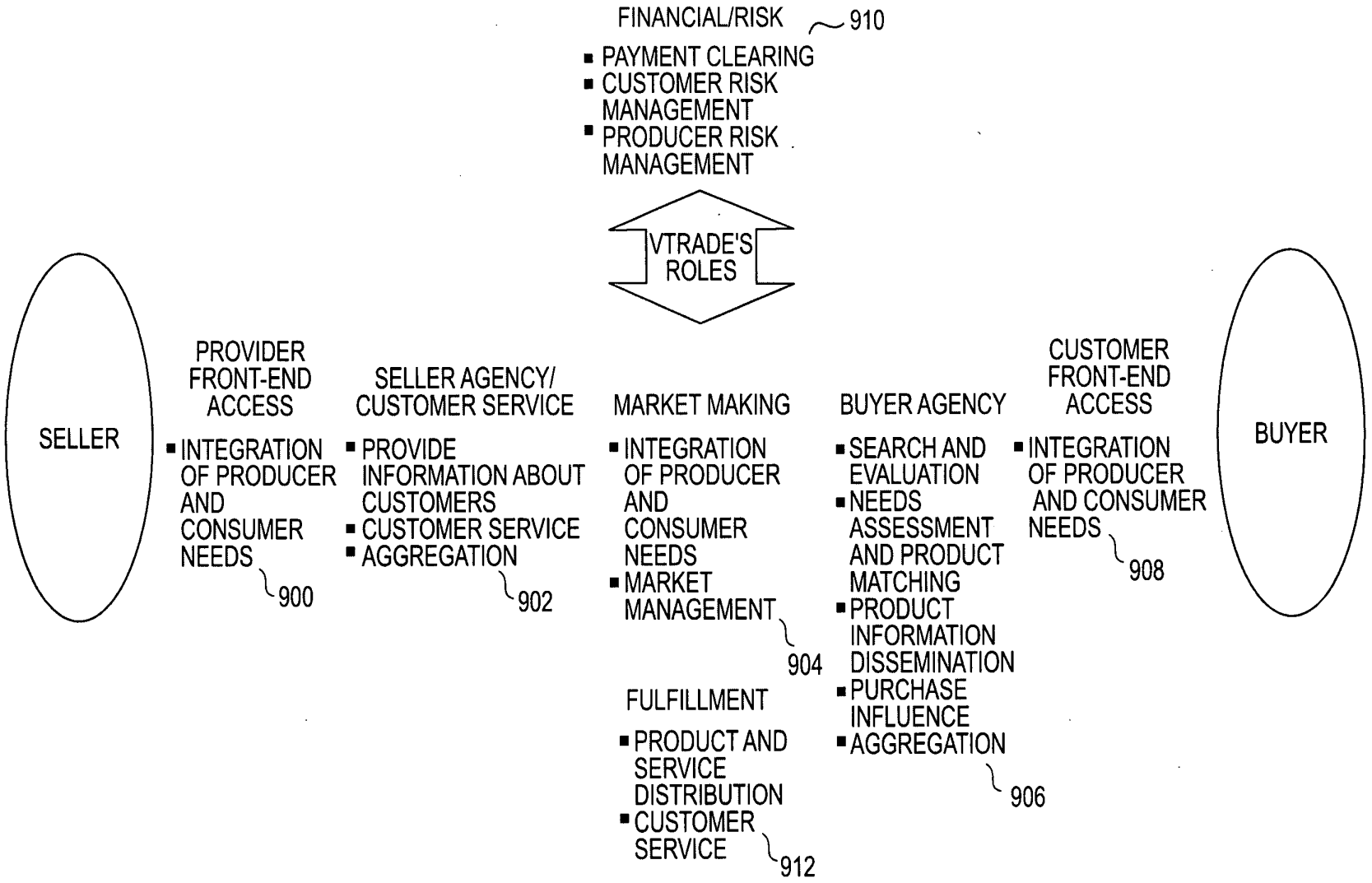


Figure 9

Replacement Sheet

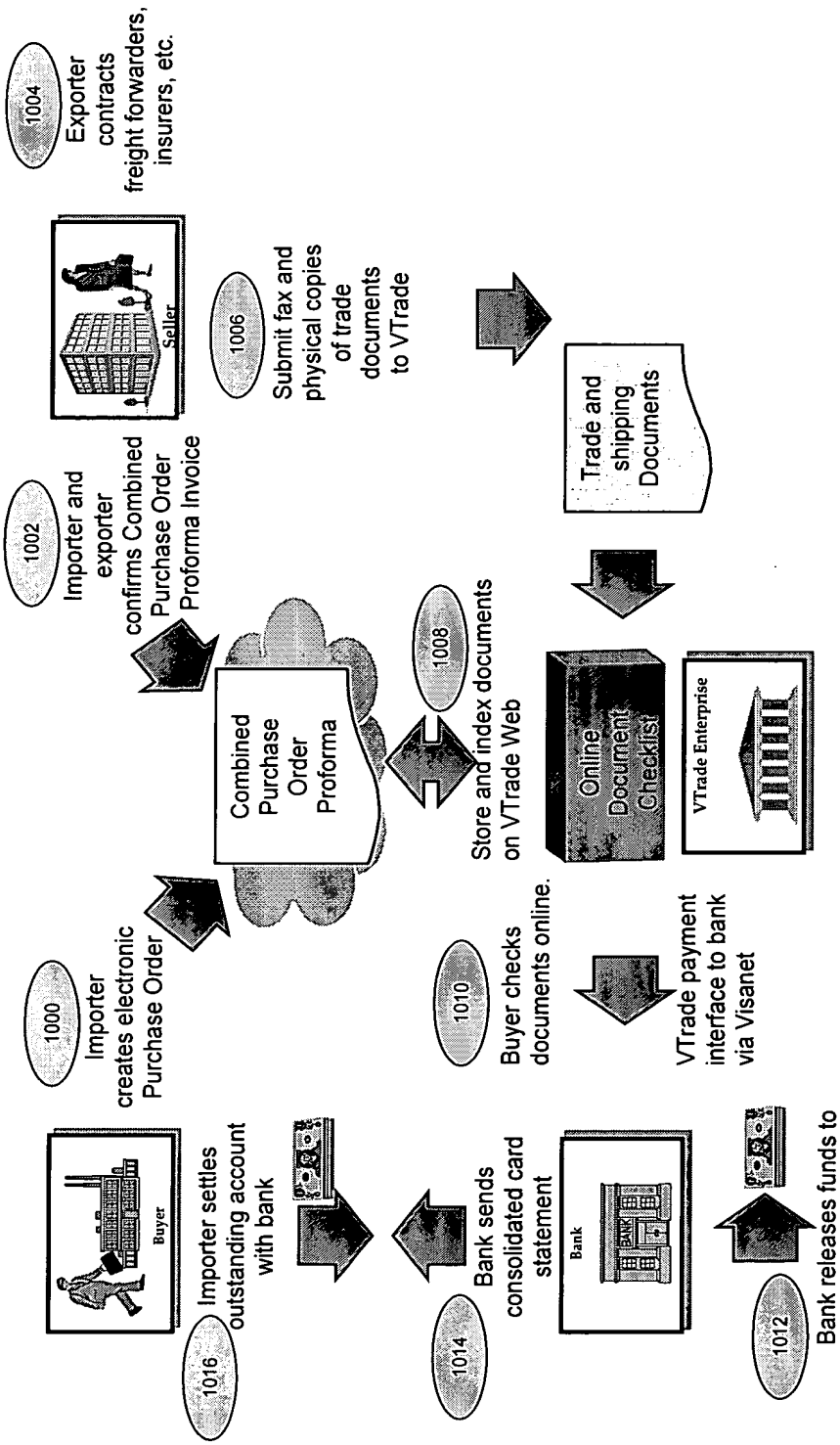

1004
Exporter contracts freight forwarders, insurers, etc.
Seller
1002
Importer and exporter confirms Combined Purchase Order Proforma Invoice
1006
Submit fax and physical copies of trade documents to VTrade
Trade and shipping Documents
Combined Purchase Order Proforma
1008
Store and index documents on VTrade Web
Online Document Checklist
VTrade Enterprise
1000
Importer creates electronic Purchase Order
1010
Buyer checks documents online.
VTrade payment interface to bank via Visanet
Buyer
1016
Importer settles outstanding account with bank
1014
Bank sends consolidated card statement
Bank
1012
Bank releases funds to seller via Visanet

Figure 10

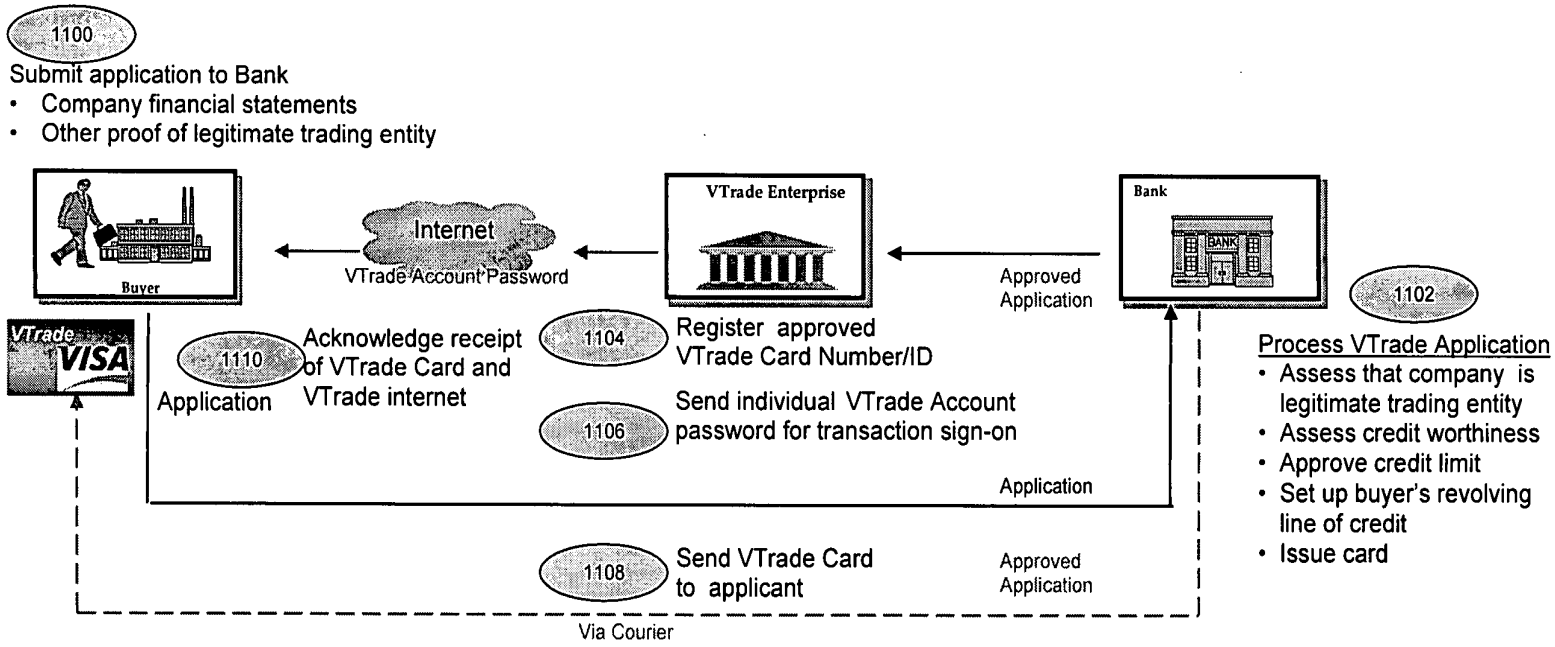


Figure 11

Replacement Sheet

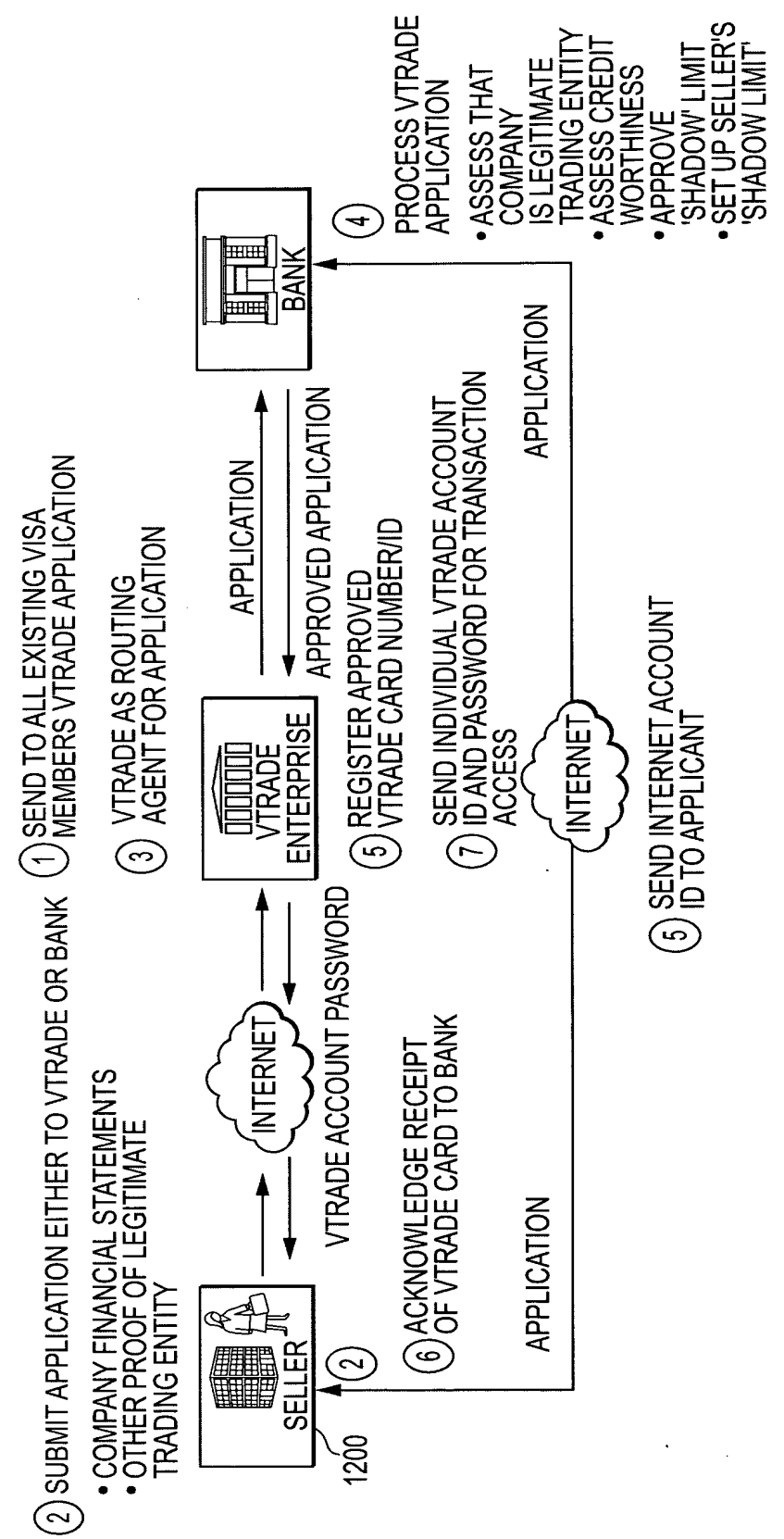

1 SEND TO ALL EXISTING VISA MEMBERS VTRADE APPLICATION
2 SUBMIT APPLICATION EITHER TO VTRADE OR BANK
• COMPANY FINANCIAL STATEMENTS
• OTHER PROOF OF LEGITIMATE TRADING ENTITY
3 VTRADE AS ROUTING AGENT FOR APPLICATION
4 PROCESS VTRADE APPLICATION
• ASSESS THAT COMPANY IS LEGITIMATE TRADING ENTITY
• ASSESS CREDIT WORTHINESS
• APPROVE 'SHADOW' LIMIT
• SET UP SELLER'S 'SHADOW LIMIT'
5 REGISTER APPROVED VTRADE CARD NUMBER/ID
5 SEND INTERNET ACCOUNT ID TO APPLICANT
6 ACKNOWLEDGE RECEIPT OF VTRADE CARD TO BANK
7 SEND INDIVIDUAL VTRADE ACCOUNT ID AND PASSWORD FOR TRANSACTION ACCESS
APPLICATION
APPLICATION
APPROVED APPLICATION
VTRADE ACCOUNT PASSWORD
INTERNET
INTERNET
VTRADE ENTERPRISE
BANK
SELLER
1200

Figure 12

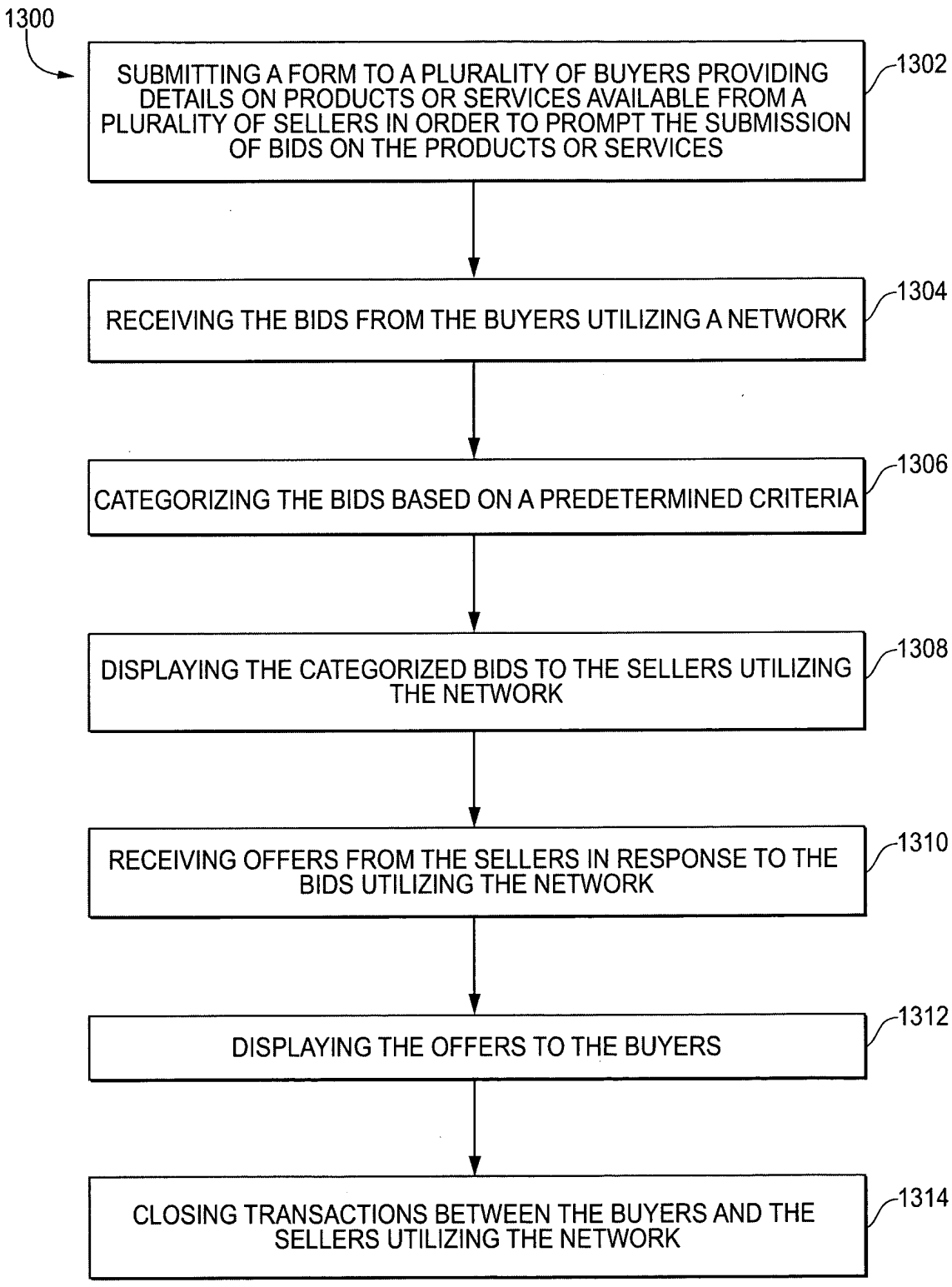

1300
SUBMITTING A FORM TO A PLURALITY OF BUYERS PROVIDING DETAILS ON PRODUCTS OR SERVICES AVAILABLE FROM A PLURALITY OF SELLERS IN ORDER TO PROMPT THE SUBMISSION OF BIDS ON THE PRODUCTS OR SERVICES
1302
RECEIVING THE BIDS FROM THE BUYERS UTILIZING A NETWORK
1304
CATEGORIZING THE BIDS BASED ON A PREDETERMINED CRITERIA
1306
DISPLAYING THE CATEGORIZED BIDS TO THE SELLERS UTILIZING THE NETWORK
1308
RECEIVING OFFERS FROM THE SELLERS IN RESPONSE TO THE BIDS UTILIZING THE NETWORK
1310
DISPLAYING THE OFFERS TO THE BUYERS
1312
CLOSING TRANSACTIONS BETWEEN THE BUYERS AND THE SELLERS UTILIZING THE NETWORK
1314

Figure 13

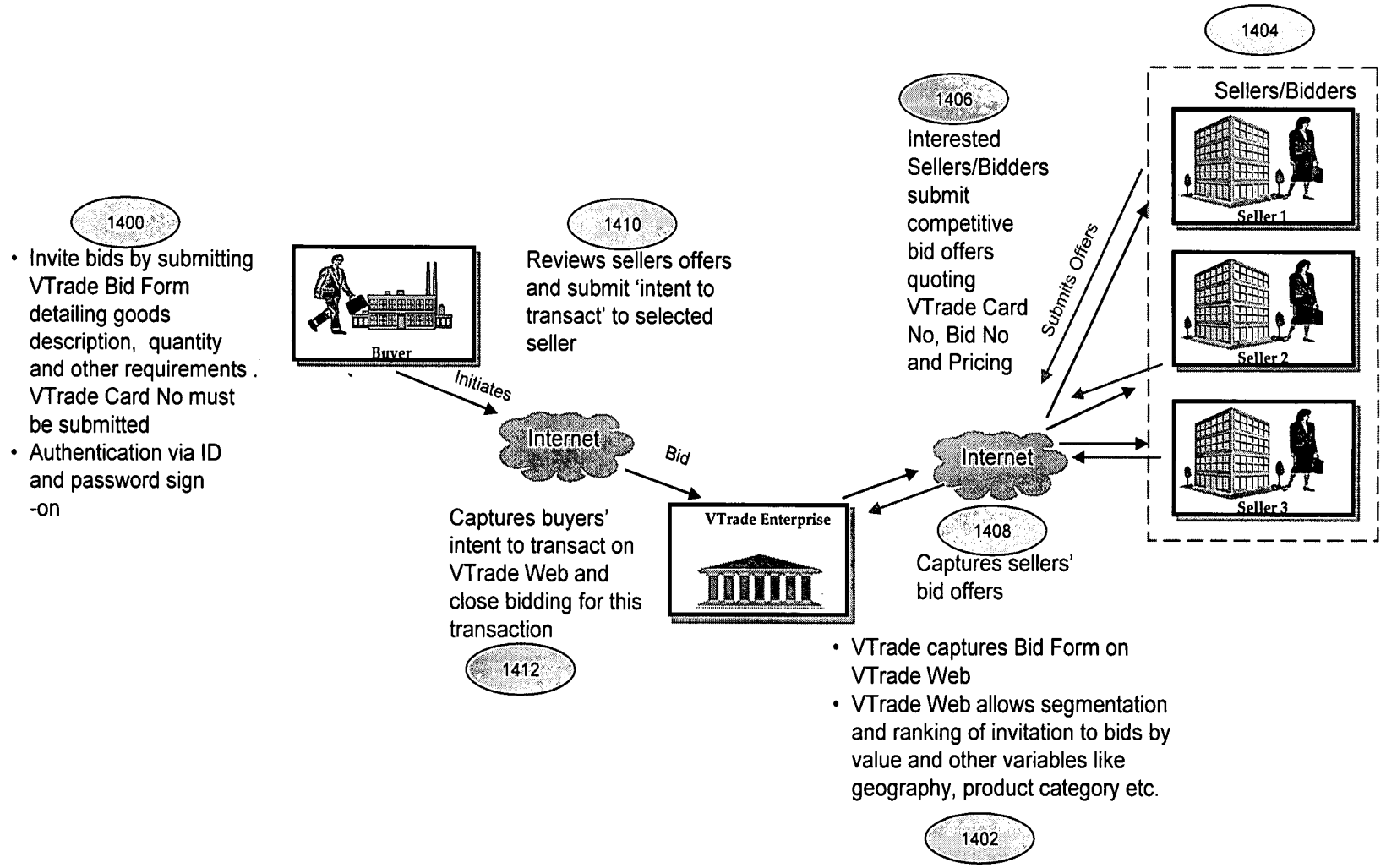


Figure 14

Replacement Sheet

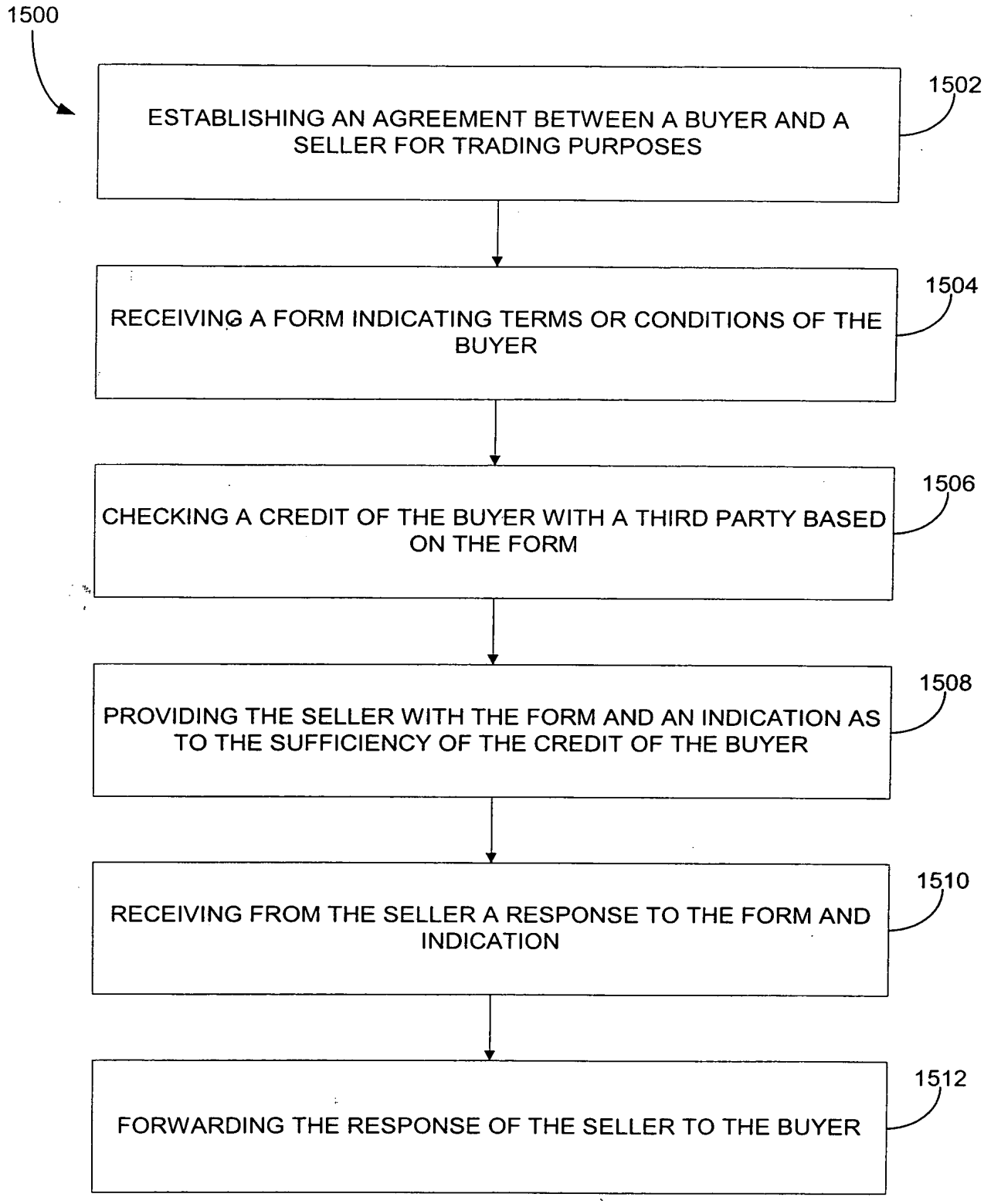

1500
ESTABLISHING AN AGREEMENT BETWEEN A BUYER AND A SELLER FOR TRADING PURPOSES
1502
RECEIVING A FORM INDICATING TERMS OR CONDITIONS OF THE BUYER
1504
CHECKING A CREDIT OF THE BUYER WITH A THIRD PARTY BASED ON THE FORM
1506
PROVIDING THE SELLER WITH THE FORM AND AN INDICATION AS TO THE SUFFICIENCY OF THE CREDIT OF THE BUYER
1508
RECEIVING FROM THE SELLER A RESPONSE TO THE FORM AND INDICATION
1510
FORWARDING THE RESPONSE OF THE SELLER TO THE BUYER
1512

Figure 15

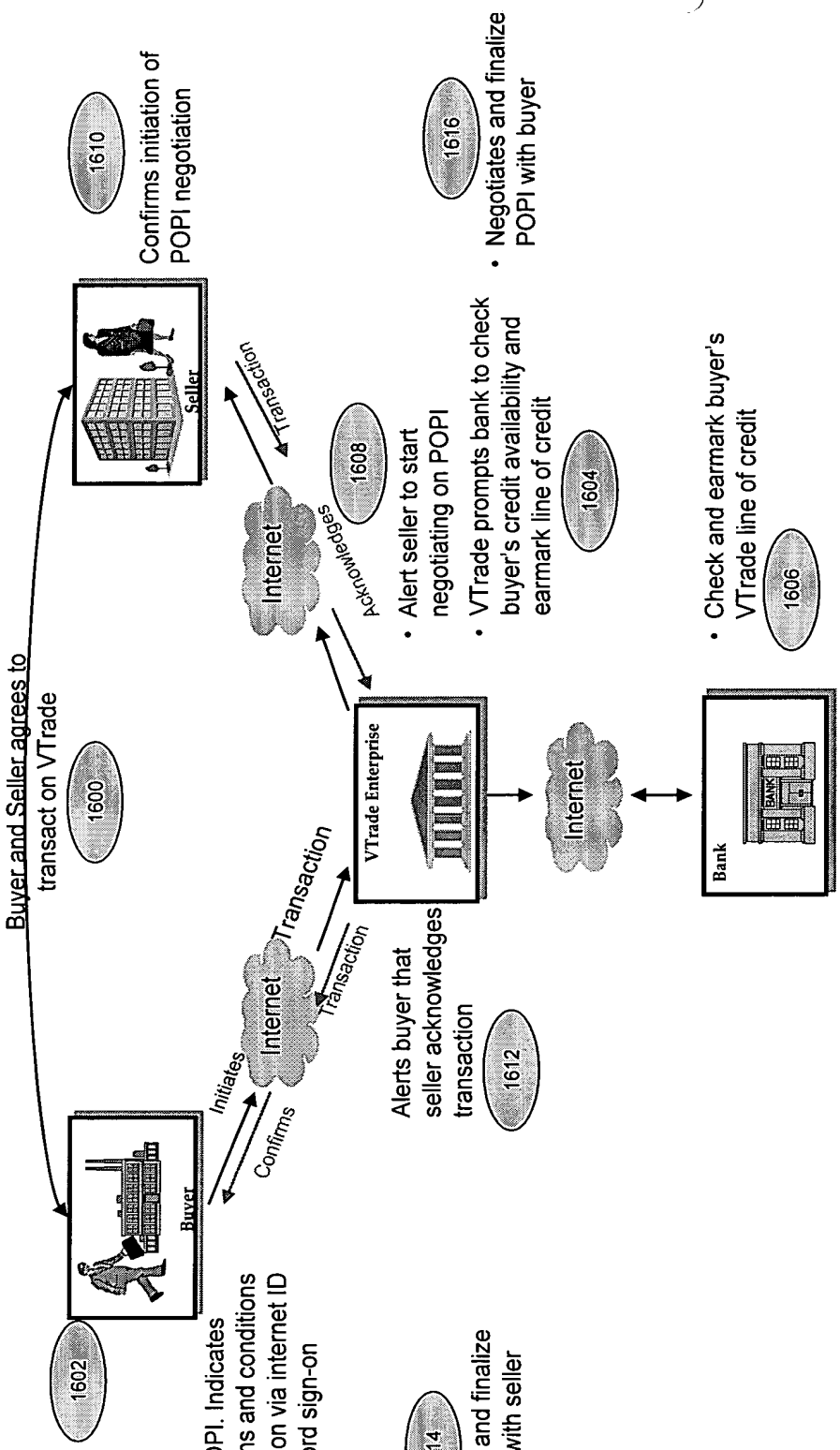

Buyer and Seller agrees to transact on VTrade
1600
1602
Buyer
Submits POPI. Indicates buyer's terms and conditions
Authentication via internet ID and password sign-on
Initiates
Confirms
Internet
Transaction
Transaction
VTrade Enterprise
Alerts buyer that seller acknowledges transaction
1612
1614
Negotiates and finalize POPI with with seller
Internet
Bank
BANK
Check and earmark buyer's VTrade line of credit
1606
1604
VTrade prompts bank to check buyer's credit availability and earmark line of credit
Alert seller to start negotiating on POPI
1608
Internet
Acknowledges
Transaction
Seller
Confirms initiation of POPI negotiation
1610
Negotiates and finalize POPI with buyer
1616

Figure 16

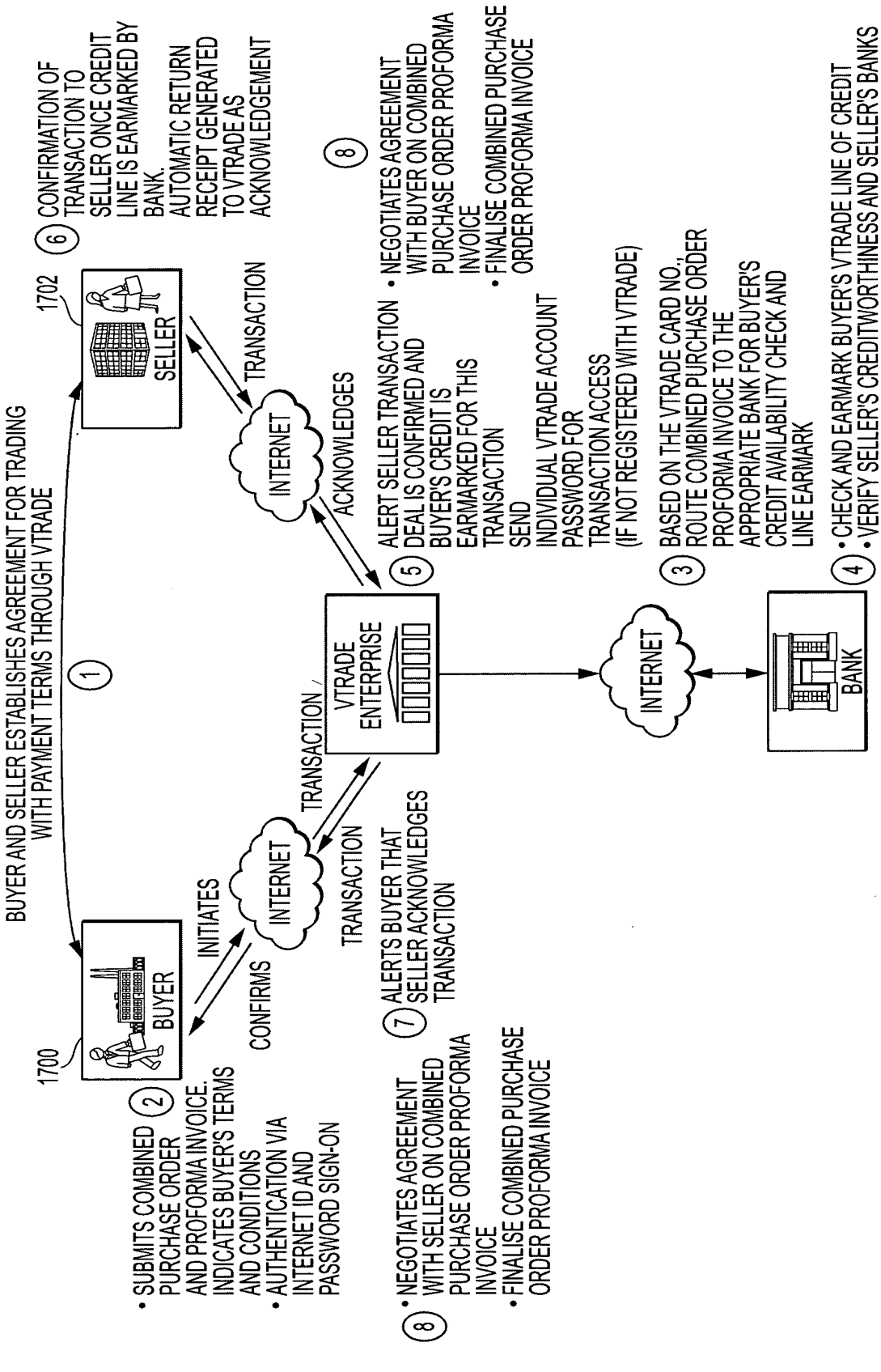

BUYER AND SELLER ESTABLISHES AGREEMENT FOR TRADING WITH PAYMENT TERMS THROUGH VTRADE
1
1700
BUYER
1702
SELLER
• SUBMITS COMBINED PURCHASE ORDER AND PROFORMA INVOICE. INDICATES BUYER'S TERMS AND CONDITIONS
• AUTHENTICATION VIA INTERNET ID AND PASSWORD SIGN-ON
2
INITIATES
CONFIRMS
INTERNET
TRANSACTION
VTRADE ENTERPRISE
TRANSACTION
INTERNET
TRANSACTION
ACKNOWLEDGES
INTERNET
6 CONFIRMATION OF TRANSACTION TO SELLER ONCE CREDIT LINE IS EARMARKED BY BANK. AUTOMATIC RETURN RECEIPT GENERATED TO VTRADE AS ACKNOWLEDGEMENT
7 ALERTS BUYER THAT SELLER ACKNOWLEDGES TRANSACTION
8 • NEGOTIATES AGREEMENT WITH SELLER ON COMBINED PURCHASE ORDER PROFORMA INVOICE
• FINALISE COMBINED PURCHASE ORDER PROFORMA INVOICE
5 ALERT SELLER TRANSACTION DEAL IS CONFIRMED AND BUYER'S CREDIT IS EARMARKED FOR THIS TRANSACTION
SEND INDIVIDUAL VTRADE ACCOUNT PASSWORD FOR TRANSACTION ACCESS (IF NOT REGISTERED WITH VTRADE)
8 • NEGOTIATES AGREEMENT WITH BUYER ON COMBINED PURCHASE ORDER PROFORMA INVOICE
• FINALISE COMBINED PURCHASE ORDER PROFORMA INVOICE
3 BASED ON THE VTRADE CARD NO., ROUTE COMBINED PURCHASE ORDER PROFORMA INVOICE TO THE APPROPRIATE BANK FOR BUYER'S CREDIT AVAILABILITY CHECK AND LINE EARMARK
4 • CHECK AND EARMARK BUYER'S VTRADE LINE OF CREDIT
• VERIFY SELLER'S CREDITWORTHINESS AND SELLER'S BANKS
• ENCOURAGE SELLER TO APPLY TO JOIN VTRADE (IF NOT REGISTERED WITH VTRADE)
BANK

Figure 17

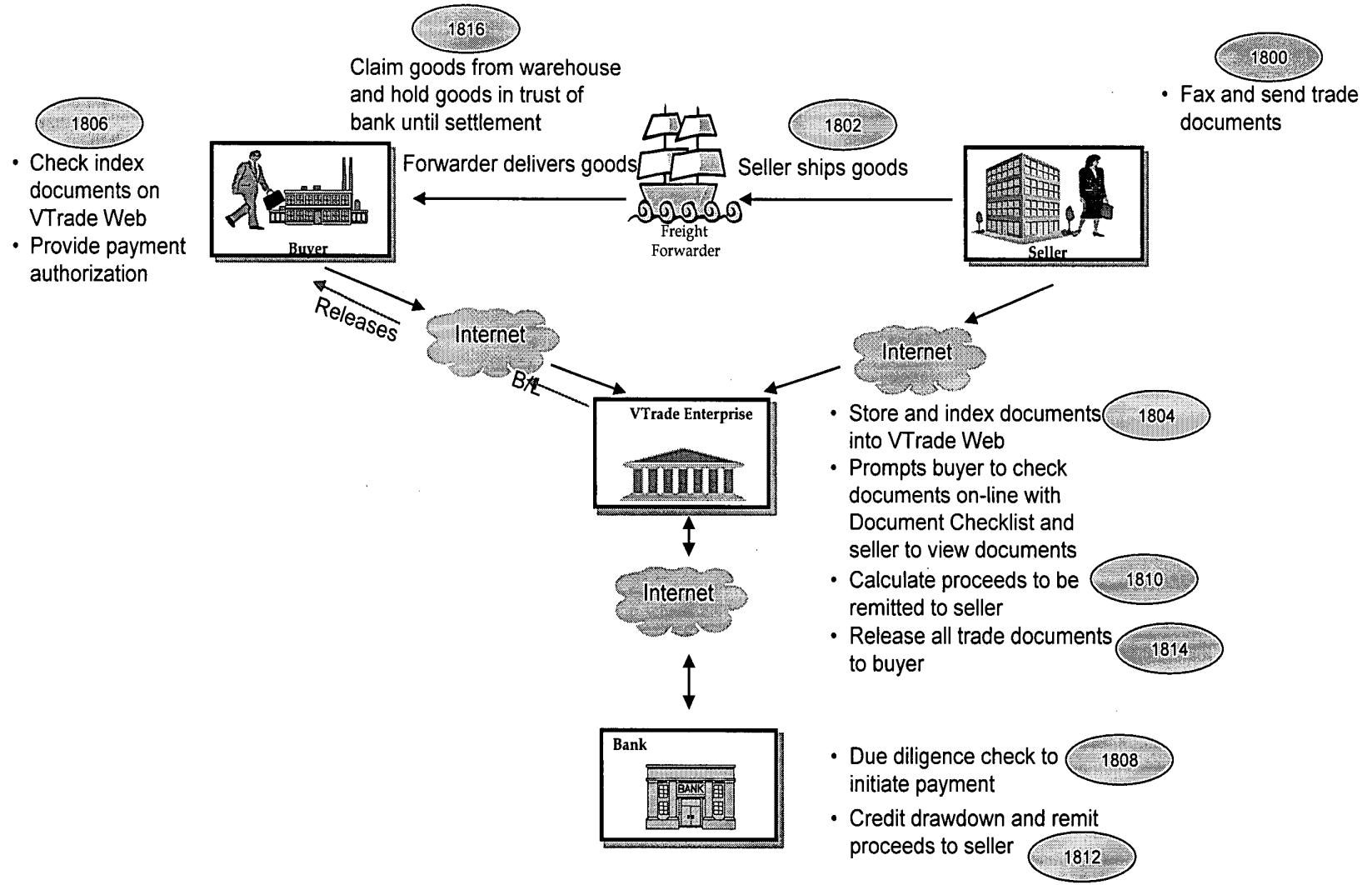


Figure 18

Replacement Sheet

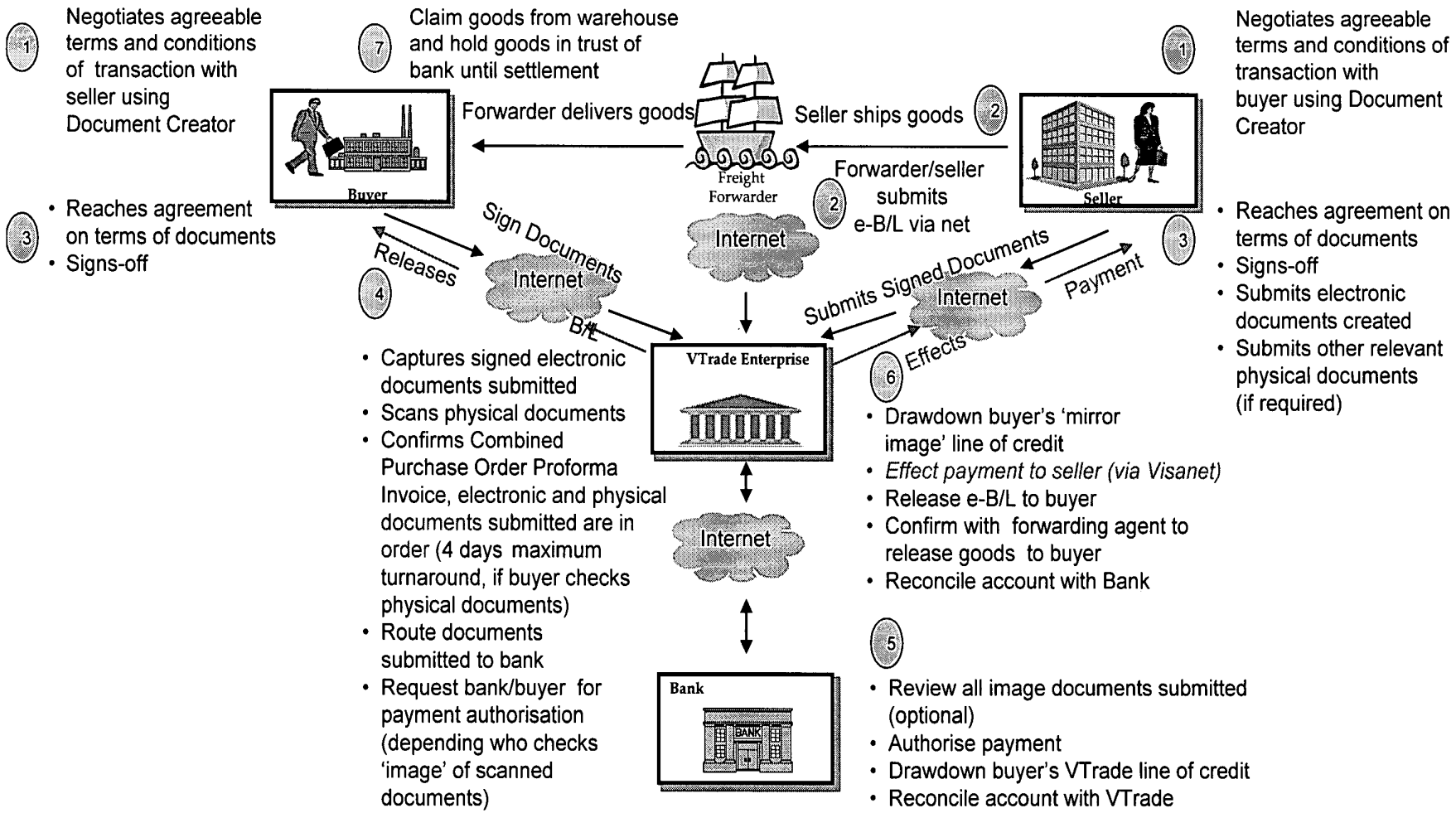


Figure 19

Replacement Sheet

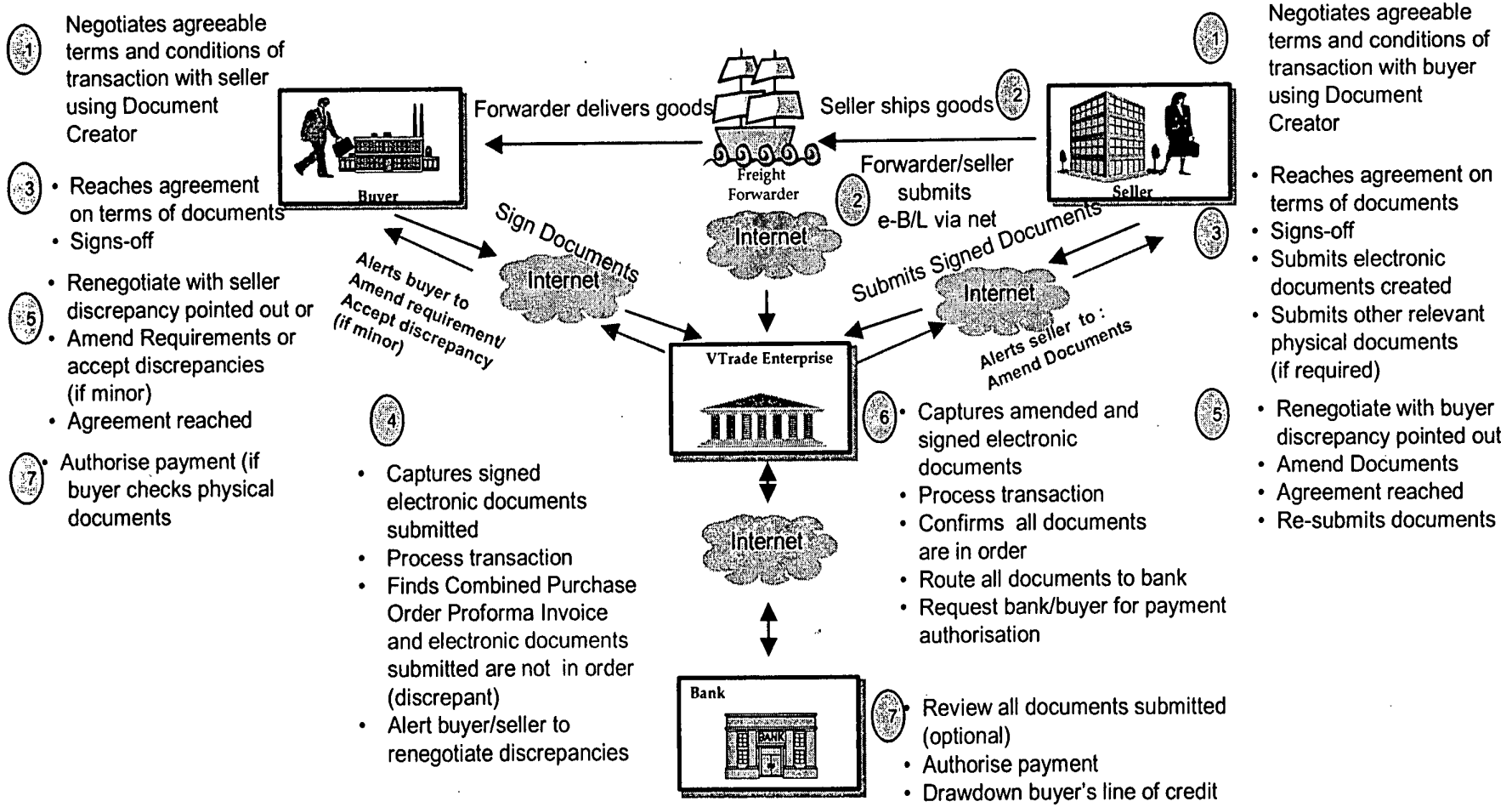


Figure 20

Replacement Sheet

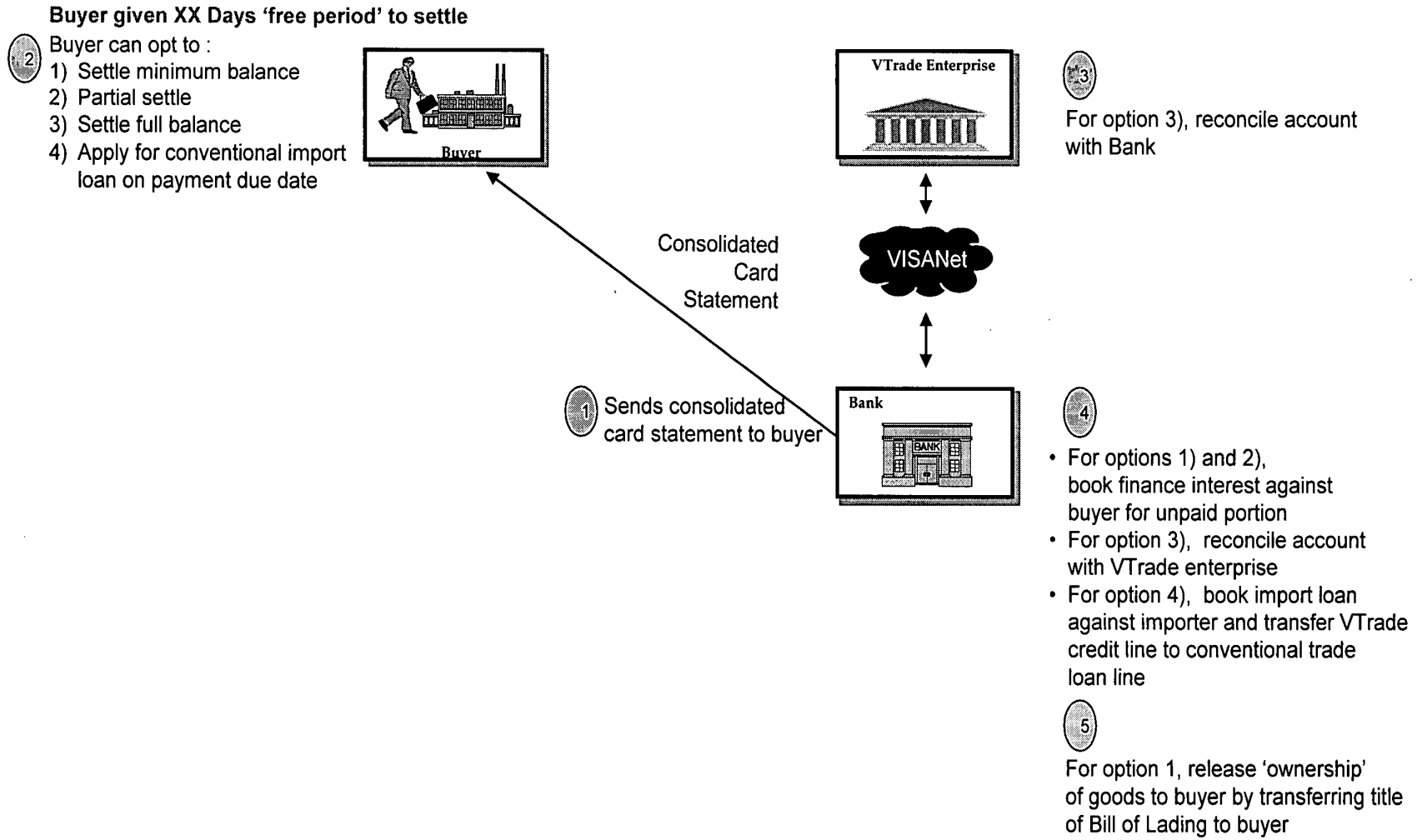


Figure 21

Replacement Sheet

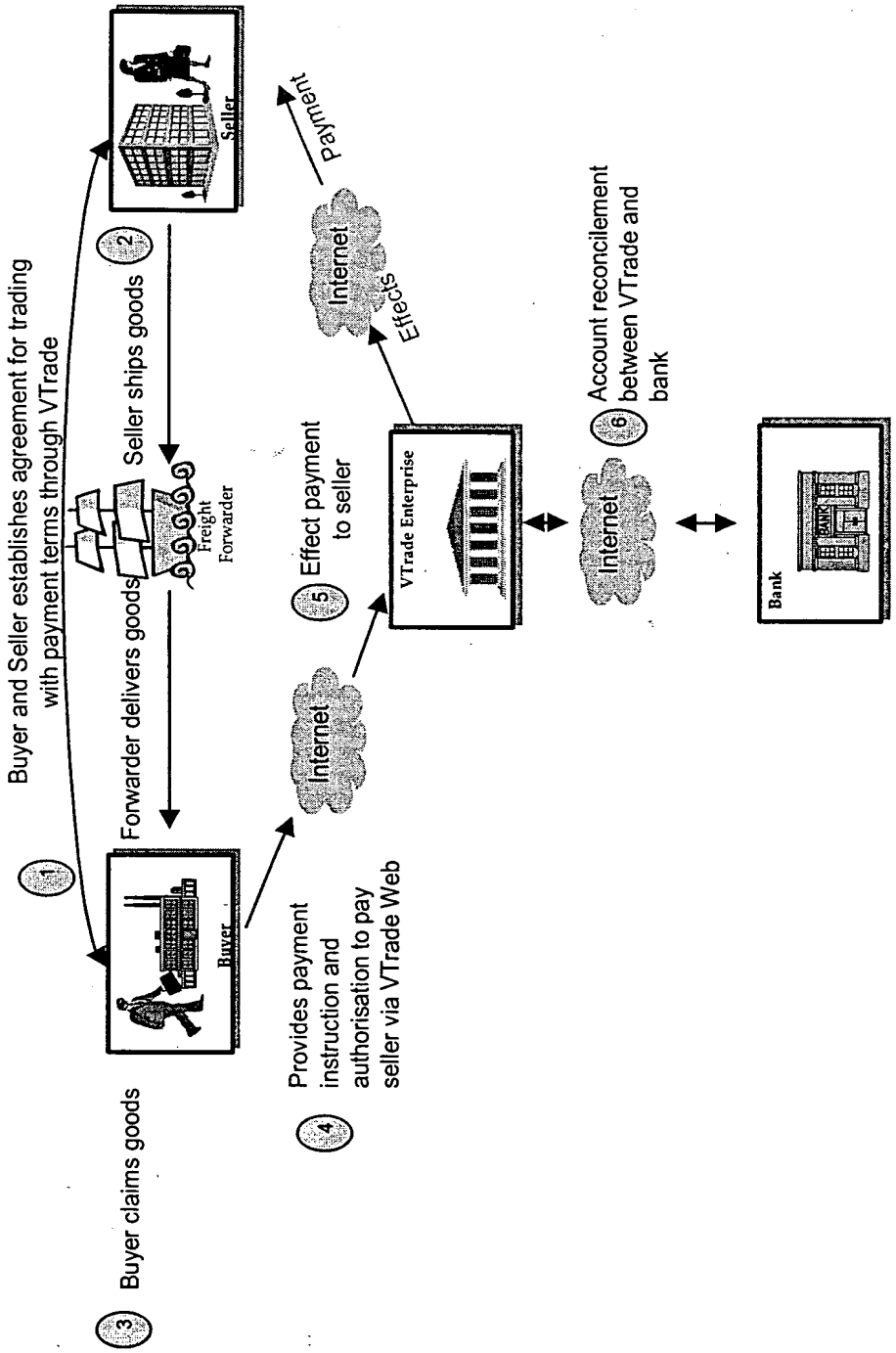

Buyer and Seller establishes agreement for trading with payment terms through VTrade
1
Seller
2
Seller ships goods
Forwarder delivers goods
Freight Forwarder
Buyer
3
Buyer claims goods
Internet
Provides payment instruction and authorisation to pay seller via VTrade Web
4
Internet
5
Effect payment to seller
VTrade Enterprise
Effects
Internet
Payment
6
Account reconcilement between VTrade and bank
Internet
Bank

Figure 22

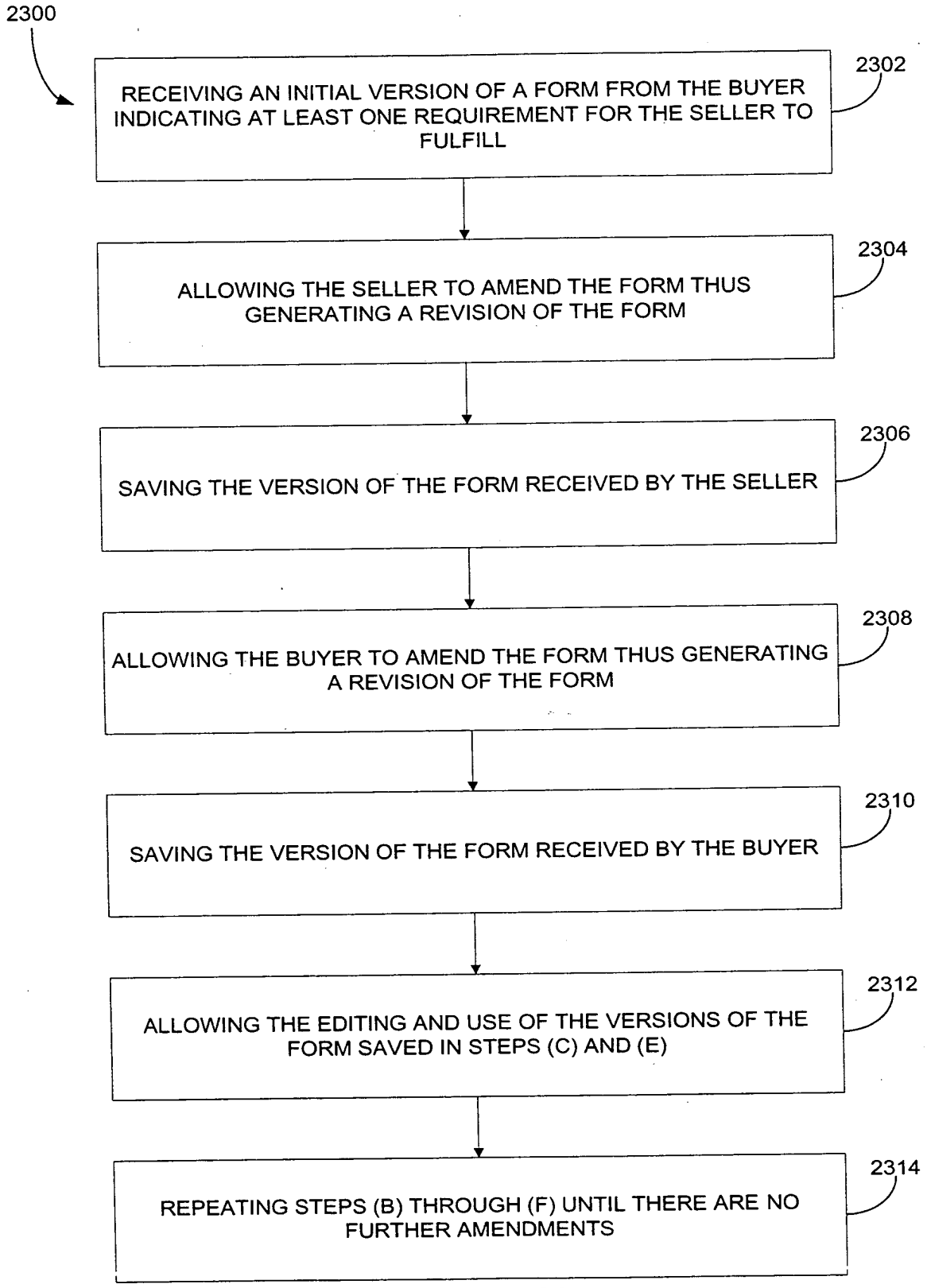

2300
RECEIVING AN INITIAL VERSION OF A FORM FROM THE BUYER INDICATING AT LEAST ONE REQUIREMENT FOR THE SELLER TO FULFILL
2302
ALLOWING THE SELLER TO AMEND THE FORM THUS GENERATING A REVISION OF THE FORM
2304
SAVING THE VERSION OF THE FORM RECEIVED BY THE SELLER
2306
ALLOWING THE BUYER TO AMEND THE FORM THUS GENERATING A REVISION OF THE FORM
2308
SAVING THE VERSION OF THE FORM RECEIVED BY THE BUYER
2310
ALLOWING THE EDITING AND USE OF THE VERSIONS OF THE FORM SAVED IN STEPS (C) AND (E)
2312
REPEATING STEPS (B) THROUGH (F) UNTIL THERE ARE NO FURTHER AMENDMENTS
2314

Figure 23

2400

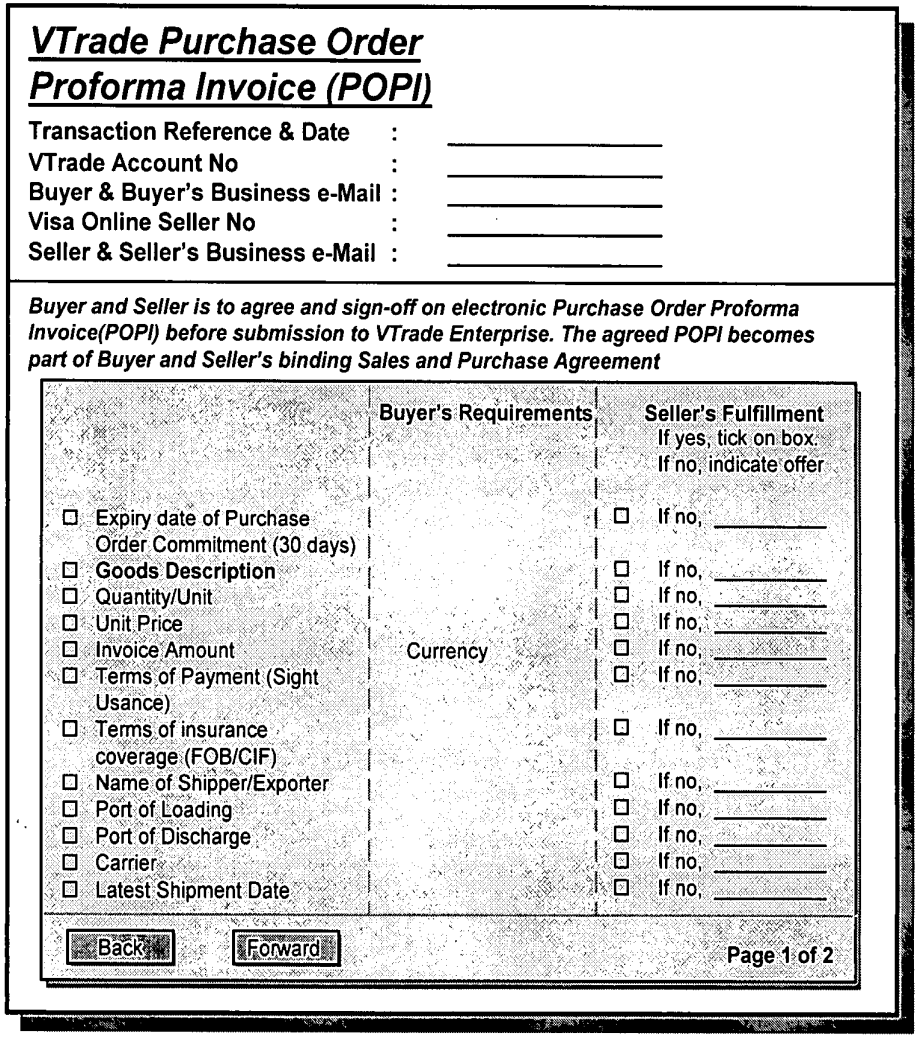


Figure 24A

Replacement Sheet

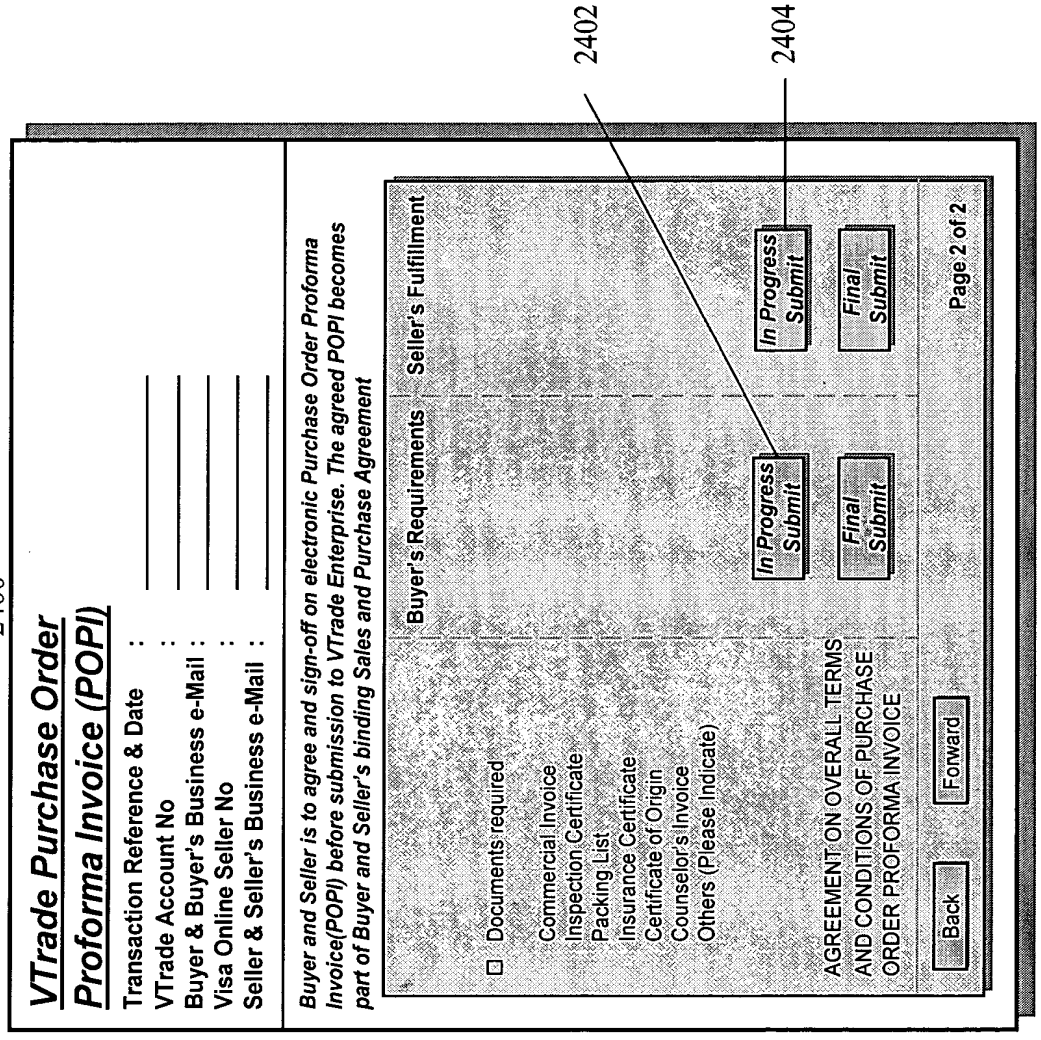

2400
VTrade Purchase Order
Proforma Invoice (POPI)
Transaction Reference & Date :
VTrade Account No :
Buyer & Buyer's Business e-Mail :
Visa Online Seller No :
Seller & Seller's Business e-Mail :
Buyer and Seller is to agree and sign-off on electronic Purchase Order Proforma Invoice(POPI) before submission to VTrade Enterprise. The agreed POPI becomes part of Buyer and Seller's binding Sales and Purchase Agreement
Buyer's Requirements
Seller's Fulfillment
Documents required
Commercial Invoice
Inspection Certificate
Packing List
Insurance Certificate
Certificate of Origin
Counselor's Invoice
Others (Please indicate)
In Progress Submit
Final Submit
In Progress Submit
Final Submit
AGREEMENT ON OVERALL TERMS AND CONDITIONS OF PURCHASE ORDER PROFORMA INVOICE
Back
Forward
Page 2 of 2
2402
2404

Figure 24B

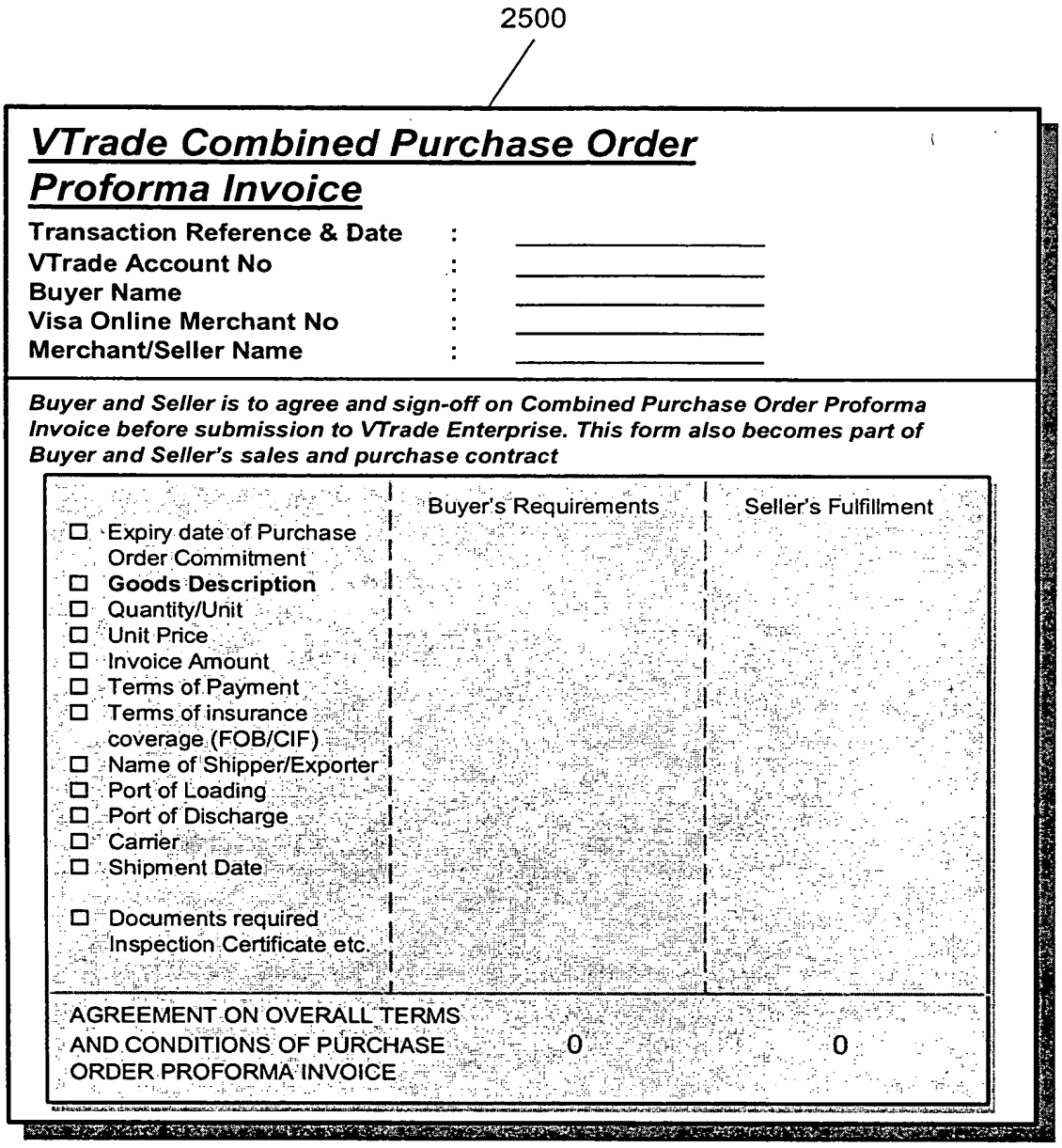

2500
VTrade Combined Purchase Order
Proforma Invoice
Transaction Reference & Date :
VTrade Account No :
Buyer Name :
Visa Online Merchant No :
Merchant/Seller Name :
Buyer and Seller is to agree and sign-off on Combined Purchase Order Proforma Invoice before submission to VTrade Enterprise. This form also becomes part of Buyer and Seller's sales and purchase contract
Buyer's Requirements
Seller's Fulfillment
Expiry date of Purchase Order Commitment
Goods Description
Quantity/Unit
Unit Price
Invoice Amount
Terms of Payment
Terms of insurance coverage (FOB/CIF)
Name of Shipper/Exporter
Port of Loading
Port of Discharge
Carrier
Shipment Date
Documents required Inspection Certificate etc
AGREEMENT ON OVERALL TERMS AND CONDITIONS OF PURCHASE ORDER PROFORMA INVOICE
0
0

Figure 25

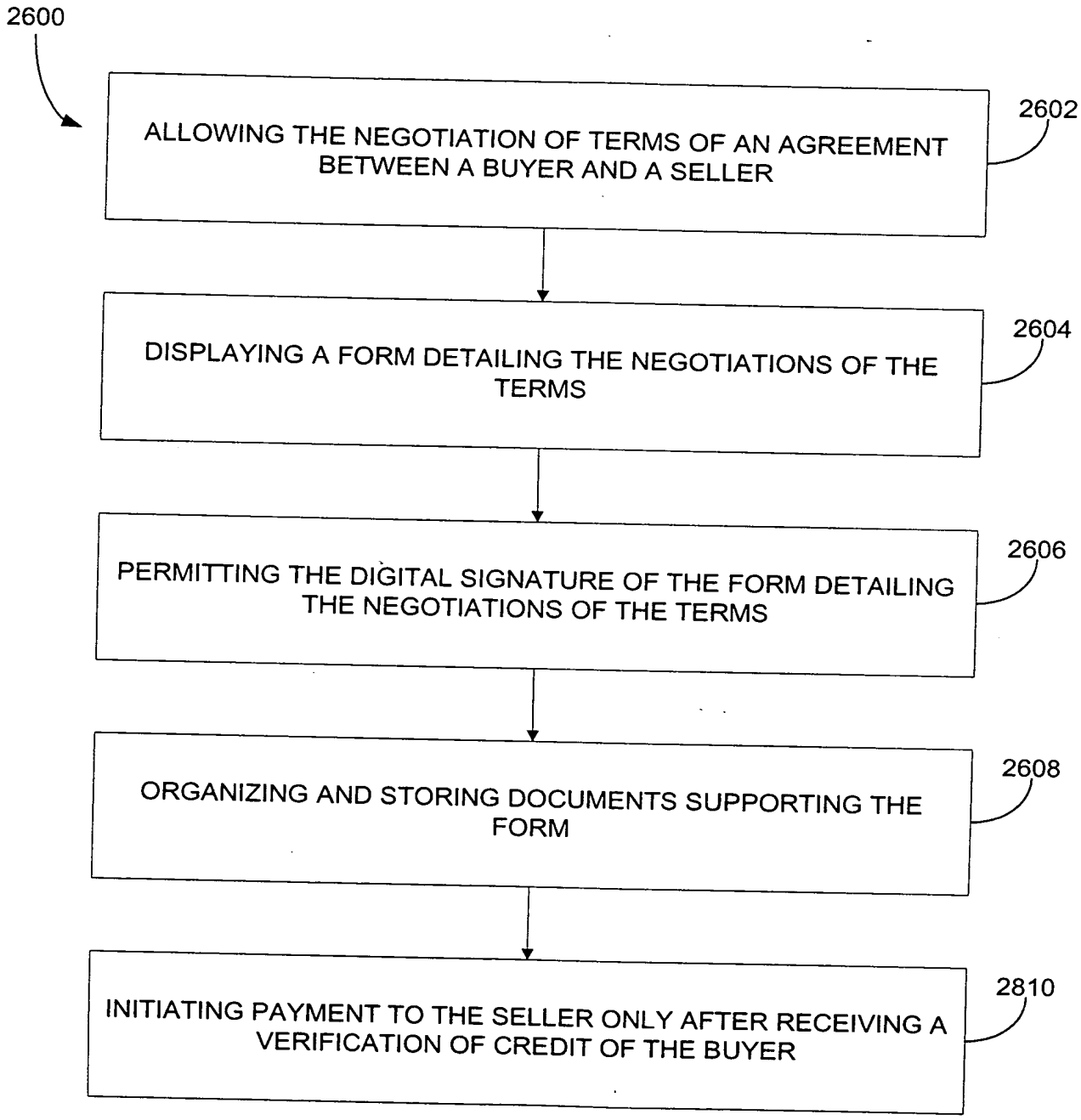

2600
ALLOWING THE NEGOTIATION OF TERMS OF AN AGREEMENT BETWEEN A BUYER AND A SELLER
2602
DISPLAYING A FORM DETAILING THE NEGOTIATIONS OF THE TERMS
2604
PERMITTING THE DIGITAL SIGNATURE OF THE FORM DETAILING THE NEGOTIATIONS OF THE TERMS
2606
ORGANIZING AND STORING DOCUMENTS SUPPORTING THE FORM
2608
INITIATING PAYMENT TO THE SELLER ONLY AFTER RECEIVING A VERIFICATION OF CREDIT OF THE BUYER
2810

Figure 26

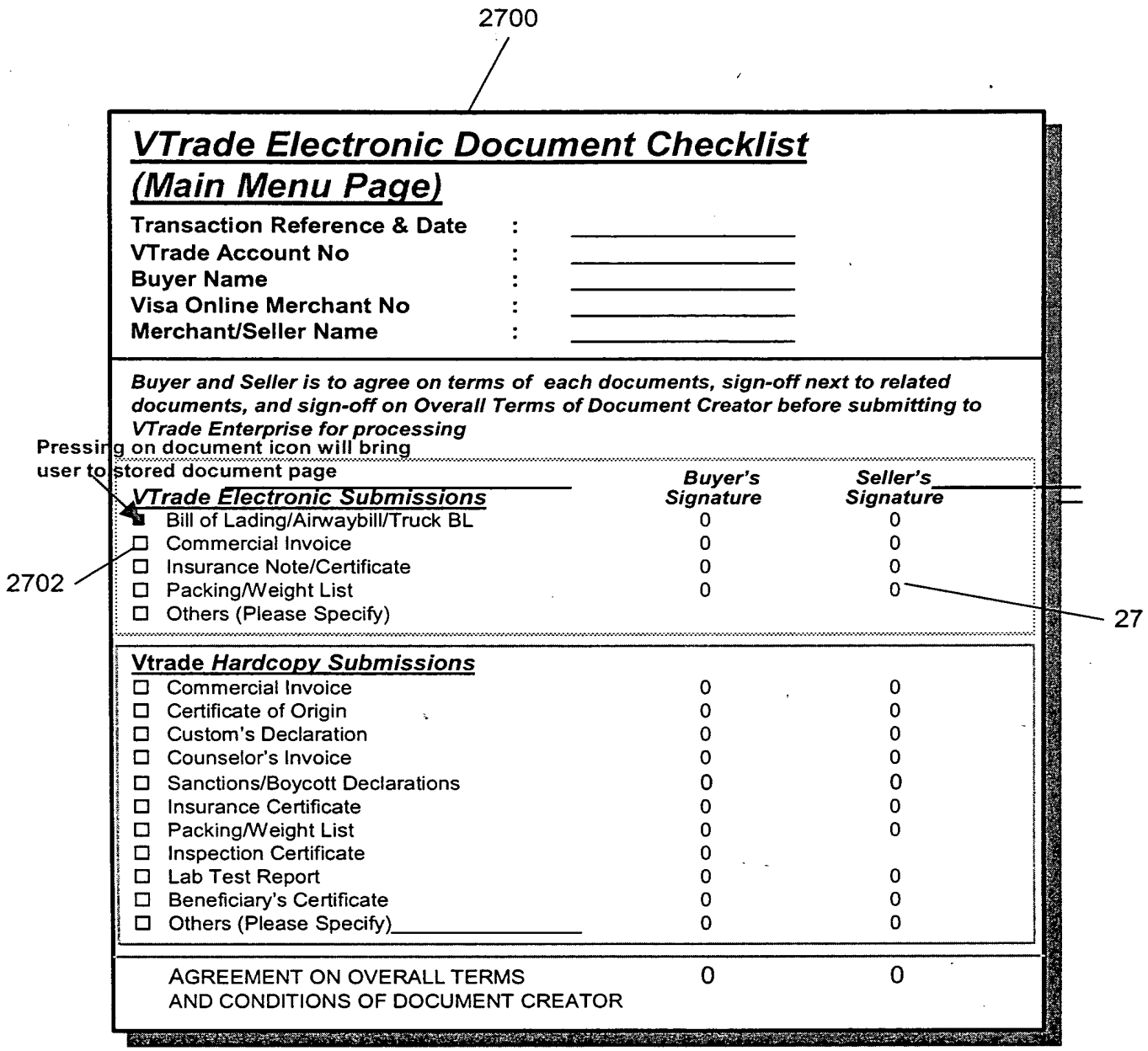

2700
VTrade Electronic Document Checklist
(Main Menu Page)
Transaction Reference & Date :
VTrade Account No :
Buyer Name :
Visa Online Merchant No :
Merchant/Seller Name :
Buyer and Seller is to agree on terms of each documents, sign-off next to related documents, and sign-off on Overall Terms of Document Creator before submitting to VTrade Enterprise for processing
Pressing on document icon will bring user to stored document page
2702
VTrade Electronic Submissions
Buyer's Signature
Seller's Signature
Bill of Lading/Airwaybill/Truck BL 0 0
Commercial Invoice 0 0
Insurance Note/Certificate 0 0
Packing/Weight List 0 0
Others (Please Specify)
27
Vtrade Hardcopy Submissions
Commercial Invoice 0 0
Certificate of Origin 0 0
Custom's Declaration 0 0
Counselor's Invoice 0 0
Sanctions/Boycott Declarations 0 0
Insurance Certificate 0 0
Packing/Weight List 0 0
Inspection Certificate 0
Lab Test Report 0 0
Beneficiary's Certificate 0 0
Others (Please Specify)_____ 0 0
AGREEMENT ON OVERALL TERMS AND CONDITIONS OF DOCUMENT CREATOR 0 0

Figure 27

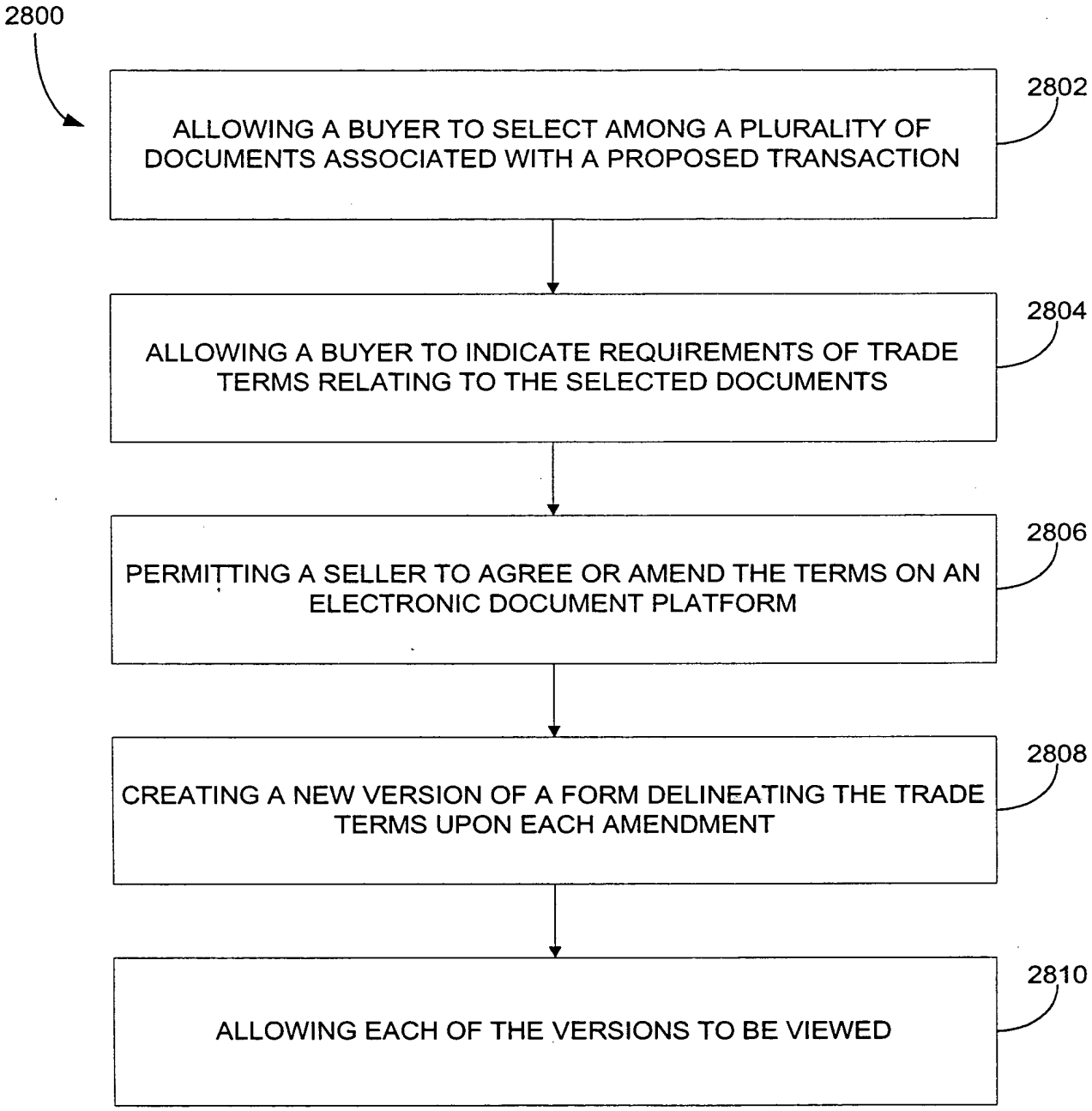

2800
ALLOWING A BUYER TO SELECT AMONG A PLURALITY OF DOCUMENTS ASSOCIATED WITH A PROPOSED TRANSACTION
2802
ALLOWING A BUYER TO INDICATE REQUIREMENTS OF TRADE TERMS RELATING TO THE SELECTED DOCUMENTS
2804
PERMITTING A SELLER TO AGREE OR AMEND THE TERMS ON AN ELECTRONIC DOCUMENT PLATFORM
2806
CREATING A NEW VERSION OF A FORM DELINEATING THE TRADE TERMS UPON EACH AMENDMENT
2808
ALLOWING EACH OF THE VERSIONS TO BE VIEWED
2810

Figure 28

2900

VTrade Electronic Document Creator (Document Page)

Transaction Reference & Date : _____
VTrade Card/Account No : _____
Buyer Name : _____
Visa Online Merchant No : _____
Seller Name : _____
Document Type : Bill Of Lading

Importer and Exporter is to negotiate and agree on terms of documents before signing -off on respective documents on Document Creator Main Menu

	Buyer's Requirements	Seller's Fulfillment
☐ Name of Shipper		
☐ Consigned to		
☐ Name of Vessel		
☐ Port of Loading		
☐ Port of Discharge		
☐ Place of Delivery		
☐ On Board Date		
☐ Clean On Board		
☐ Shipping Marks		
☐ No. of Packages		
☐ Description of Goods		
☐ Gross Weight		
☐ Measurements		
☐ Freight Charges		
☐ Prepaid		
☐ Collect		

ISSUER/MASTER/
CARRIER'S SIGNATURE 0 Date Signed

Figure 29

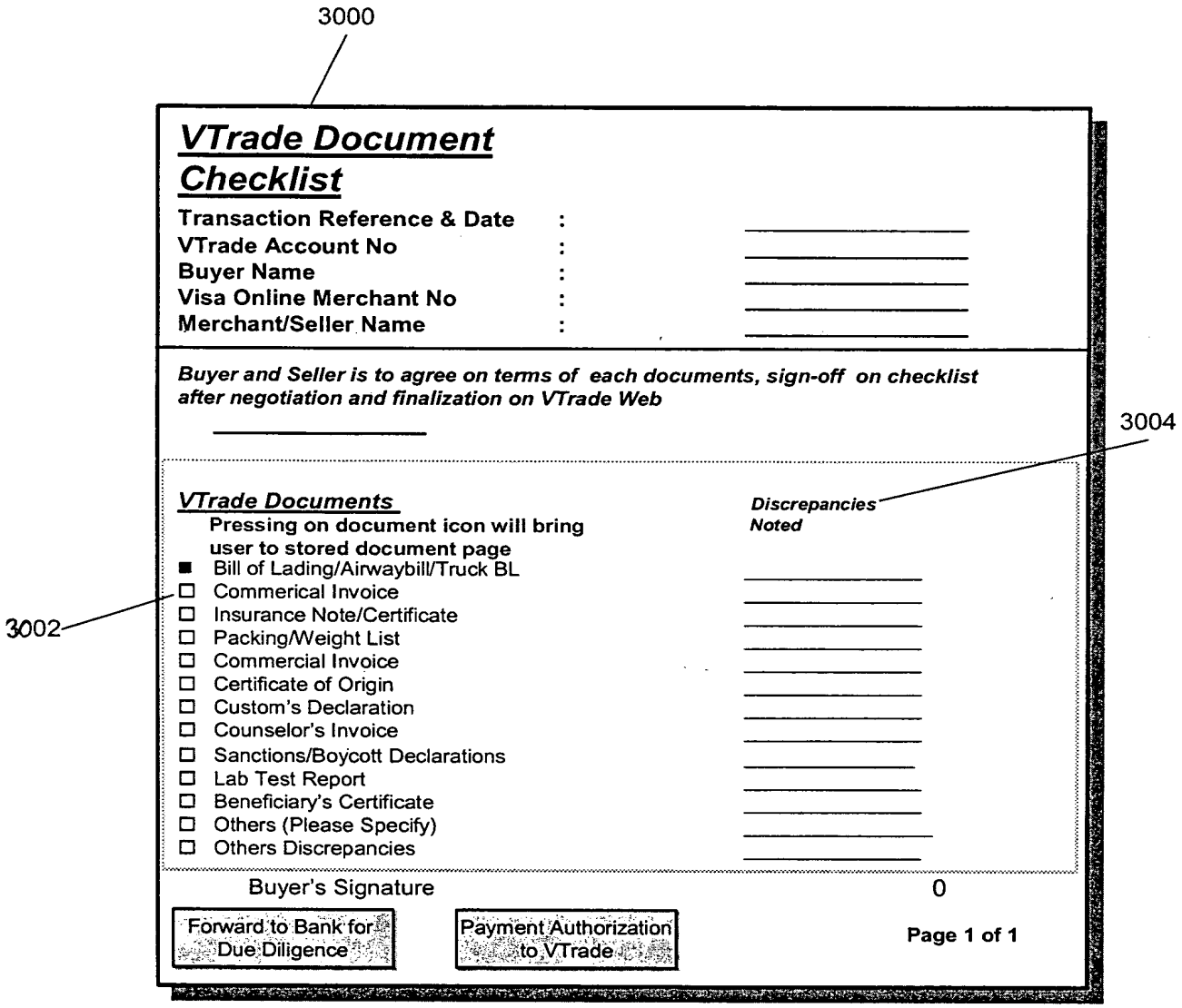

3000
VTrade Document Checklist
Transaction Reference & Date :
VTrade Account No :
Buyer Name :
Visa Online Merchant No :
Merchant/Seller Name :
Buyer and Seller is to agree on terms of each documents, sign-off on checklist after negotiation and finalization on VTrade Web
3004
VTrade Documents
Pressing on document icon will bring user to stored document page
Discrepancies Noted
3002
Bill of Lading/Airwaybill/Truck BL
Commerical Invoice
Insurance Note/Certificate
Packing/Weight List
Commercial Invoice
Certificate of Origin
Custom's Declaration
Counselor's Invoice
Sanctions/Boycott Declarations
Lab Test Report
Beneficiary's Certificate
Others (Please Specify)
Others Discrepancies
Buyer's Signature
0
Forward to Bank for Due Diligence
Payment Authorization to VTrade
Page 1 of 1

Figure 30

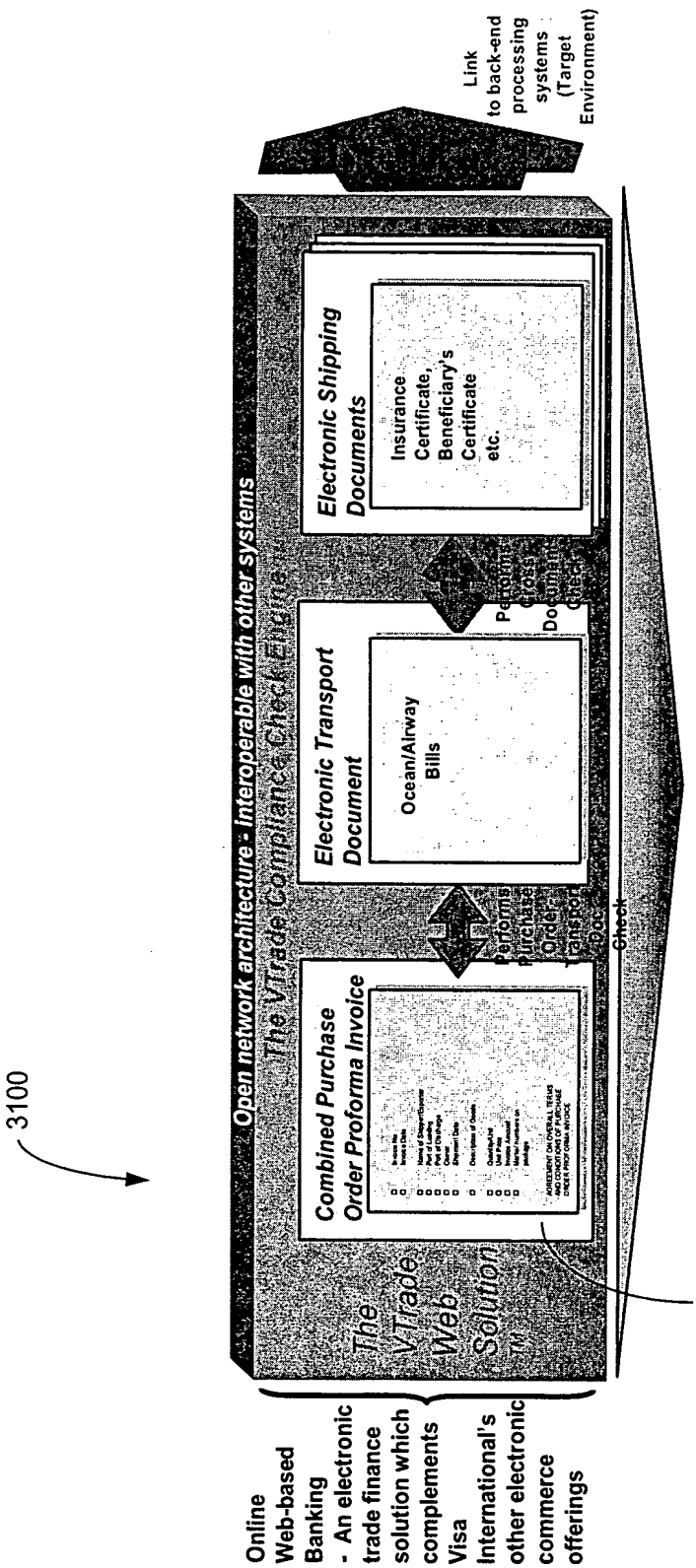

3100
Open network architecture - Interoperable with other systems
The VTrade Compliance Check Engine
Combined Purchase Order Proforma Invoice
Electronic Transport Document
Ocean/Airway Bills
Electronic Shipping Documents
Insurance Certificate, Beneficiary's Certificate etc.
Link to back-end processing systems (Target Environment)
The VTrade Web Solution
Online Web-based Banking - An electronic trade finance solution which complements Visa International's other electronic commerce offerings
3102

Figure 31

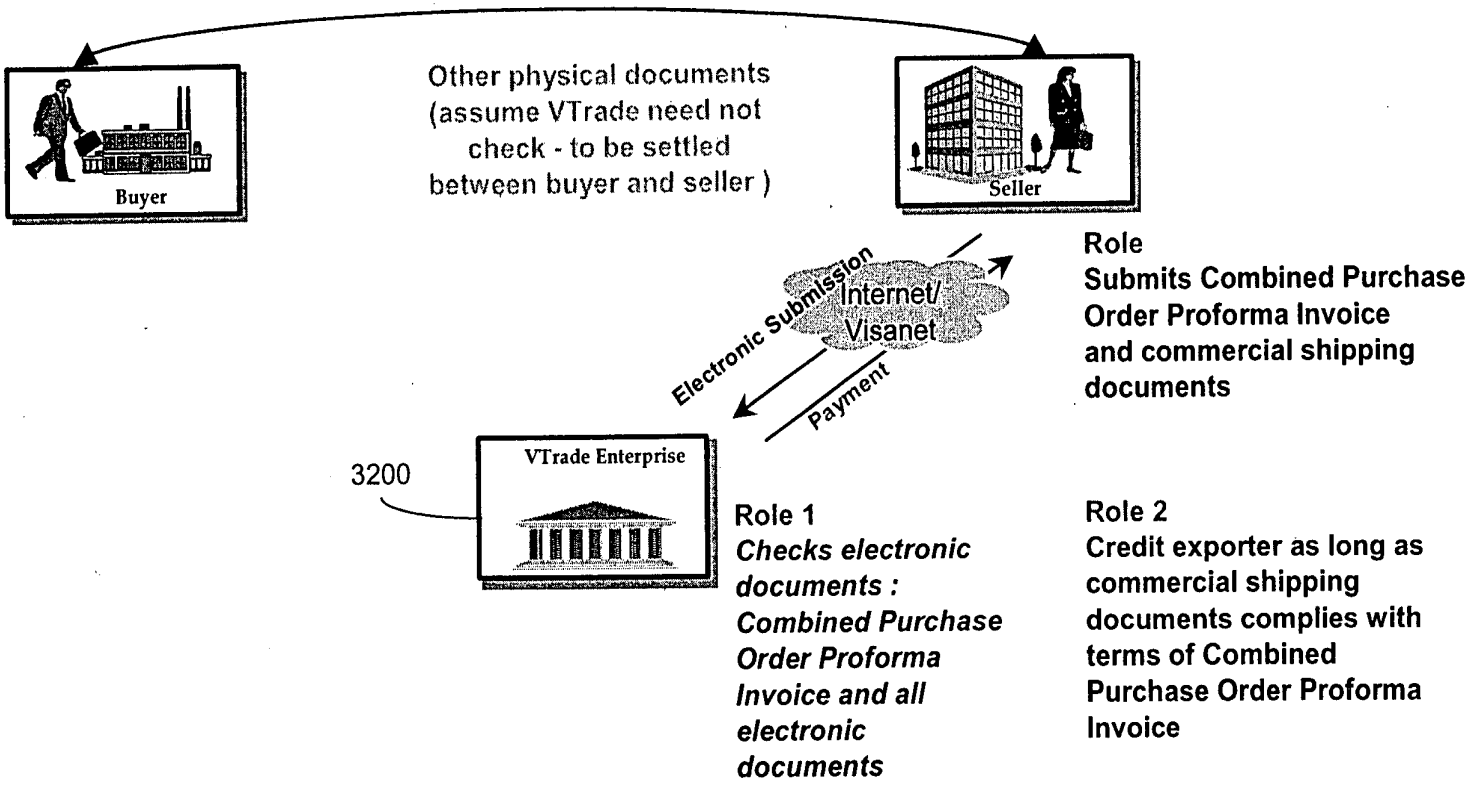


Figure 32

Replacement Sheet

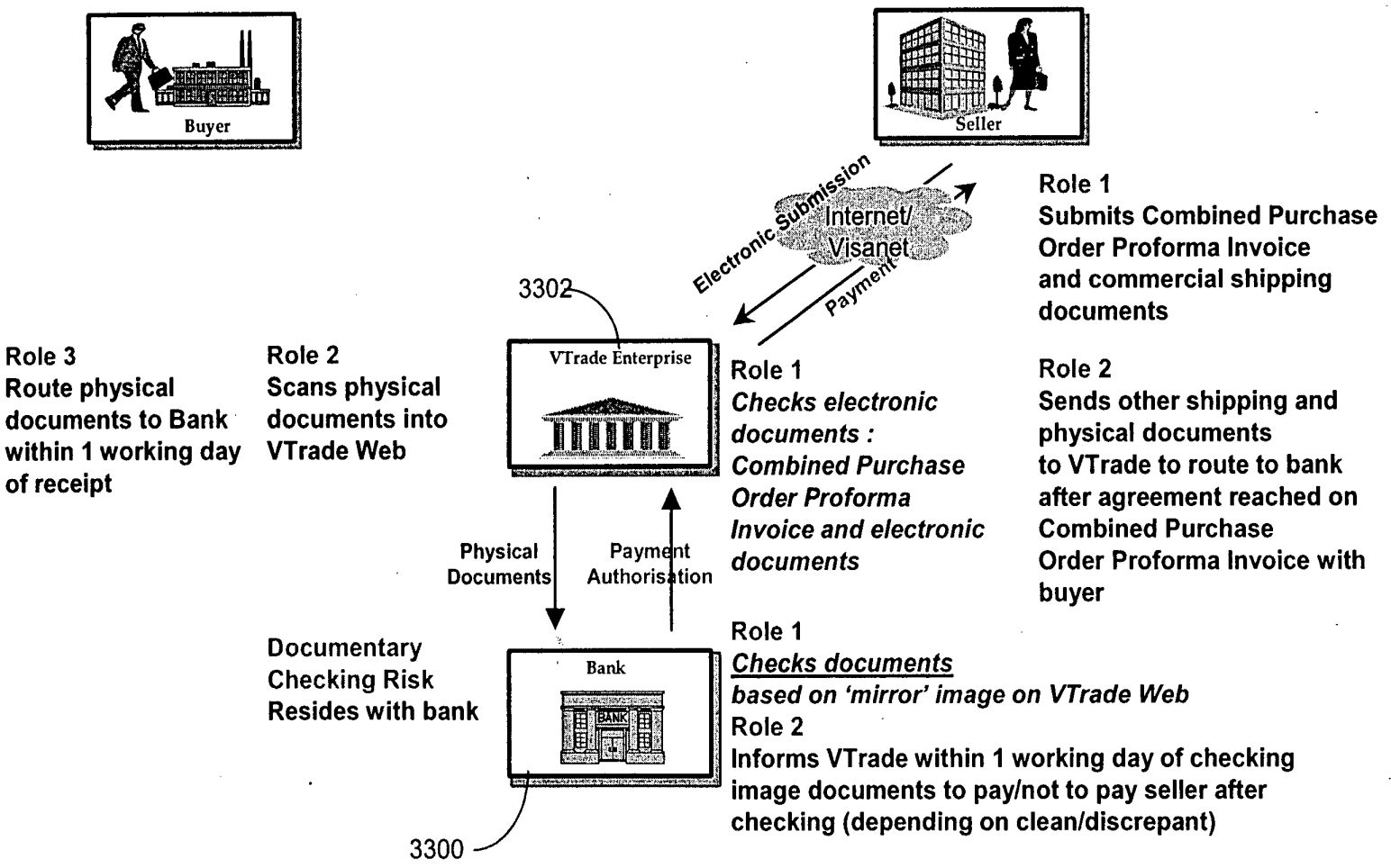


Figure 33

Replacement Sheet

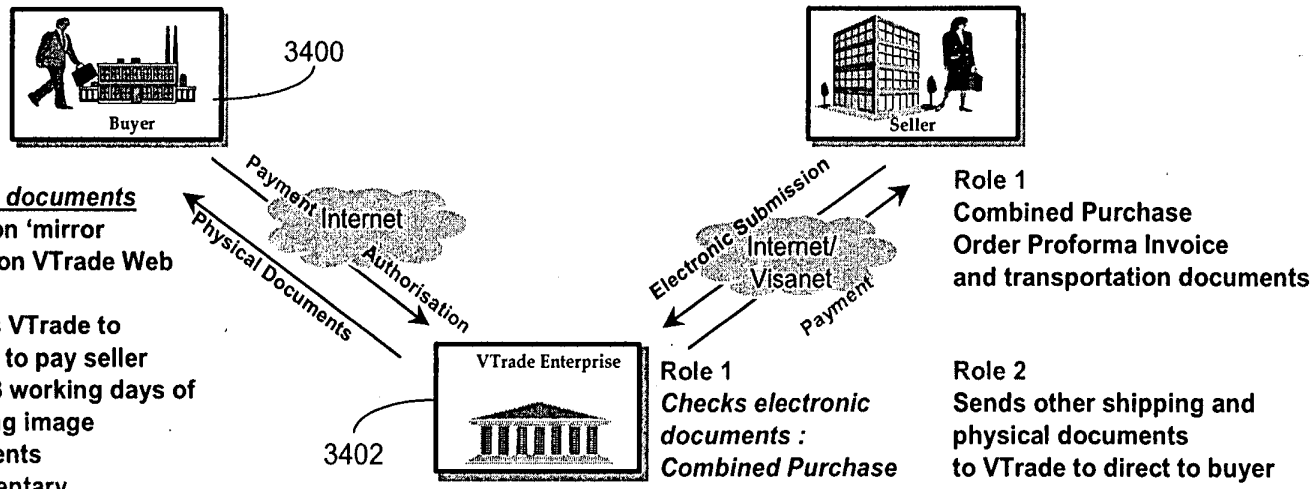


Figure 34

Replacement Sheet

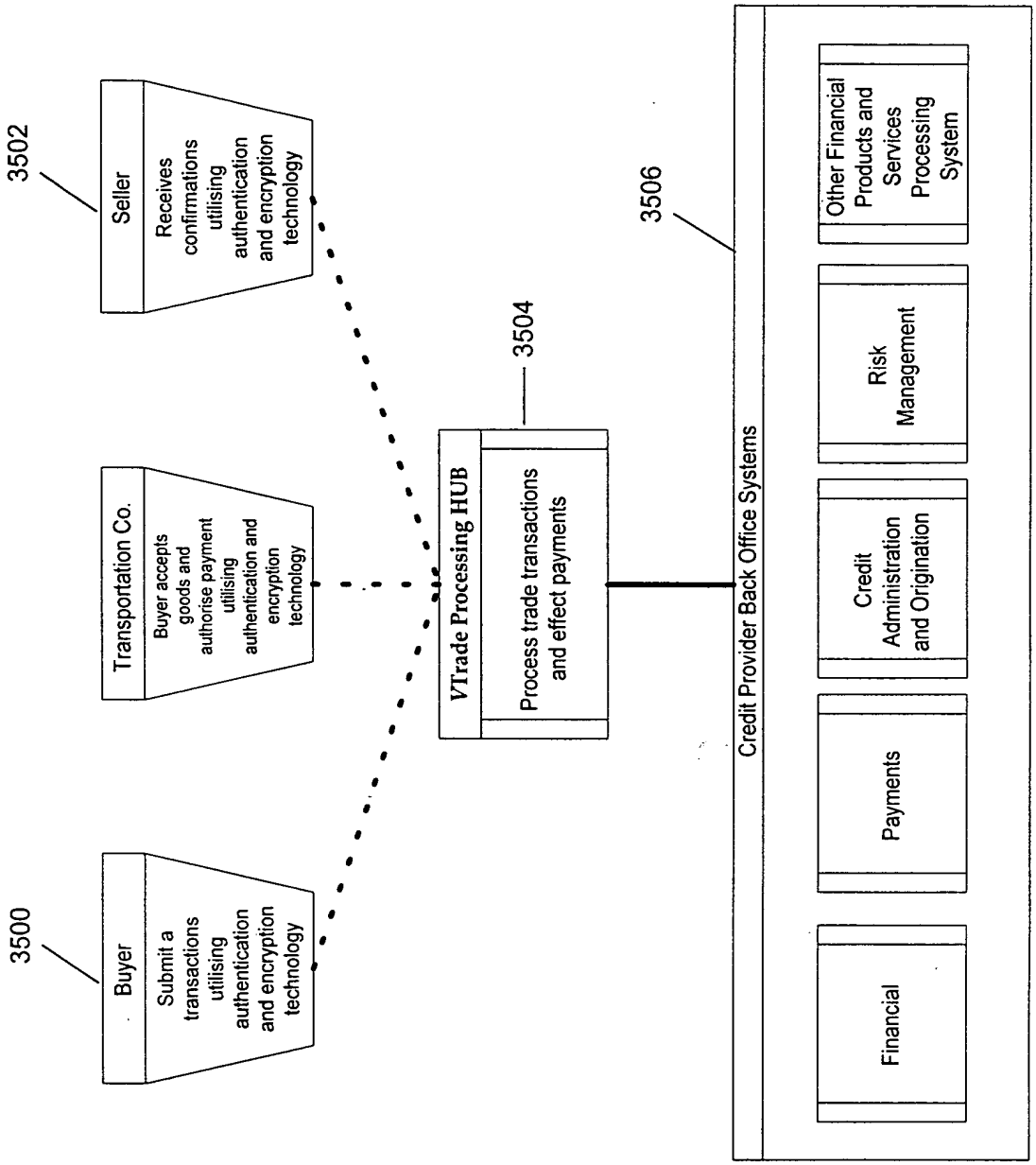

3500
Buyer
Submit a transactions utilising authentication and encryption technology
3502
Seller
Receives confirmations utilising authentication and encryption technology
Transportation Co.
Buyer accepts goods and authorise payment utilising authentication and encryption technology
3504
VTrade Processing HUB
Process trade transactions and effect payments
3506
Credit Provider Back Office Systems
Financial
Payments
Credit Administration and Origination
Risk Management
Other Financial Products and Services Processing System

Figure 35

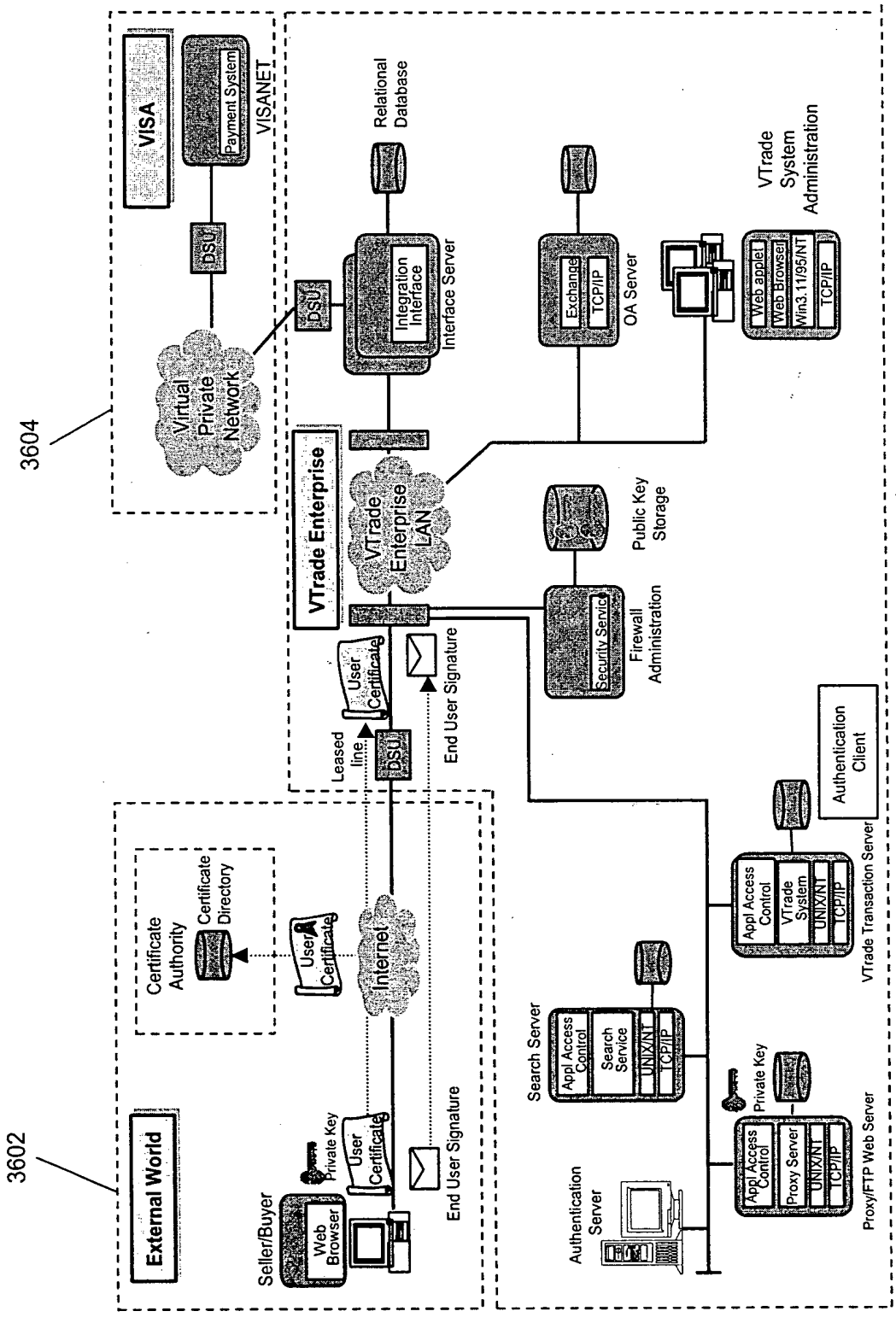

3602
3604
3600
External World
Seller/Buyer
Web Browser
Private Key
User Certificate
End User Signature
Certificate Authority
Certificate Directory
User A Certificate
Internet
Leased line
DSU
User Certificate
End User Signature
VTrade Enterprise
VTrade Enterprise LAN
Virtual Private Network
DSU
VISA
Payment System
VISANET
Relational Database
Integration Interface
Interface Server
Exchange
TCP/IP
OA Server
Web applet
Web Browser
Win3.11/95/NT
TCP/IP
VTrade System Administration
Public Key Storage
Security Servic
Firewall Administration
Authentication Client
Appl Access Control
VTrade System
UNIX/NT
TCP/IP
VTrade Transaction Server
Search Server
Appl Access Control
Search Service
UNIX/NT
TCP/IP
Authentication Server
Private Key
Appl Access Control
Proxy Server
UNIX/NT
TCP/IP
Proxy/FTP Web Server

Figure 36

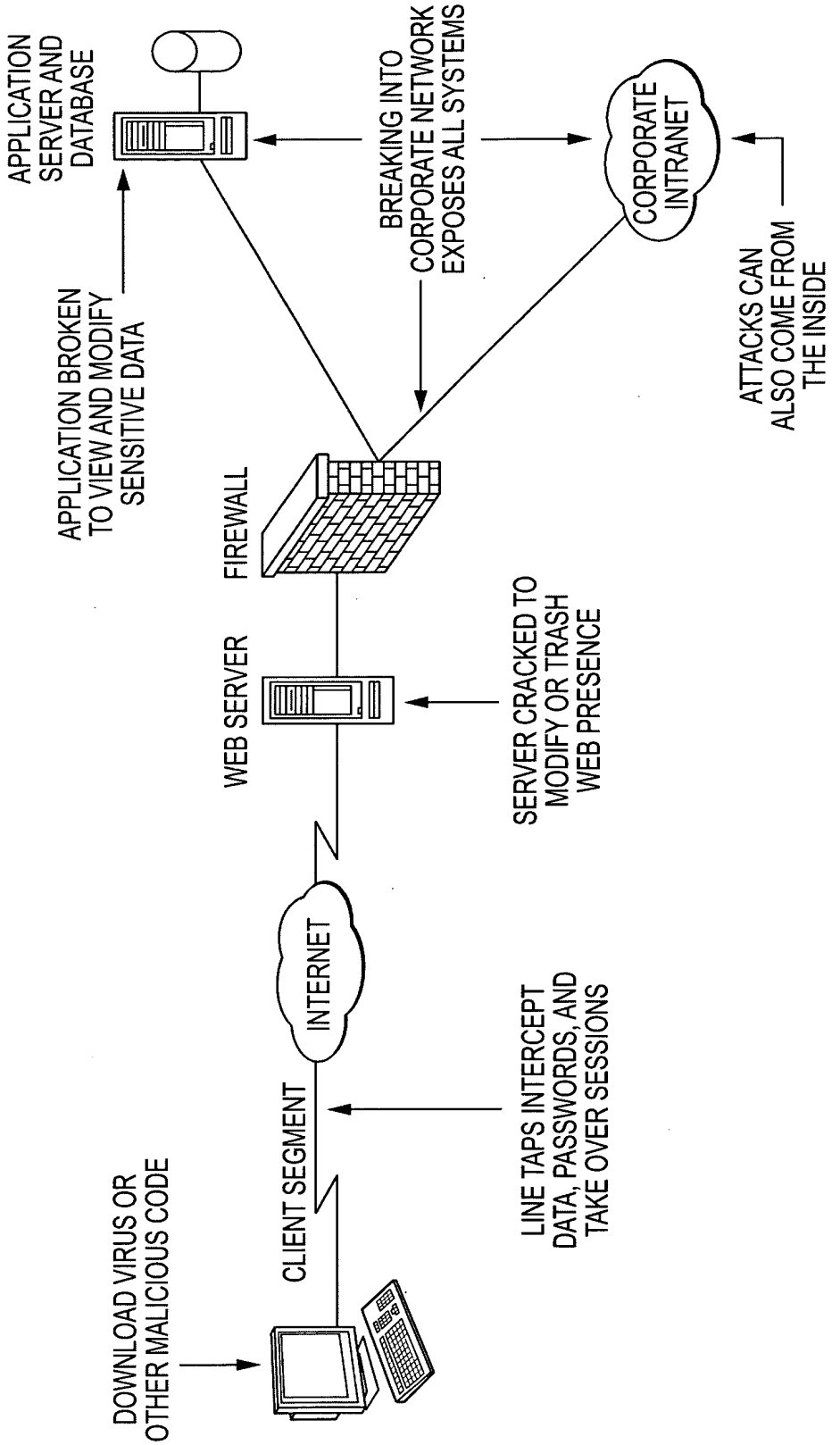

APPLICATION SERVER AND DATABASE
BREAKING INTO CORPORATE NETWORK EXPOSES ALL SYSTEMS
CORPORATE INTRANET
APPLICATION BROKEN TO VIEW AND MODIFY SENSITIVE DATA
ATTACKS CAN ALSO COME FROM THE INSIDE
FIREWALL
WEB SERVER
SERVER CRACKED TO MODIFY OR TRASH WEB PRESENCE
INTERNET
CLIENT SEGMENT
LINE TAPS INTERCEPT DATA, PASSWORDS, AND TAKE OVER SESSIONS
DOWNLOAD VIRUS OR OTHER MALICIOUS CODE

Figure 37

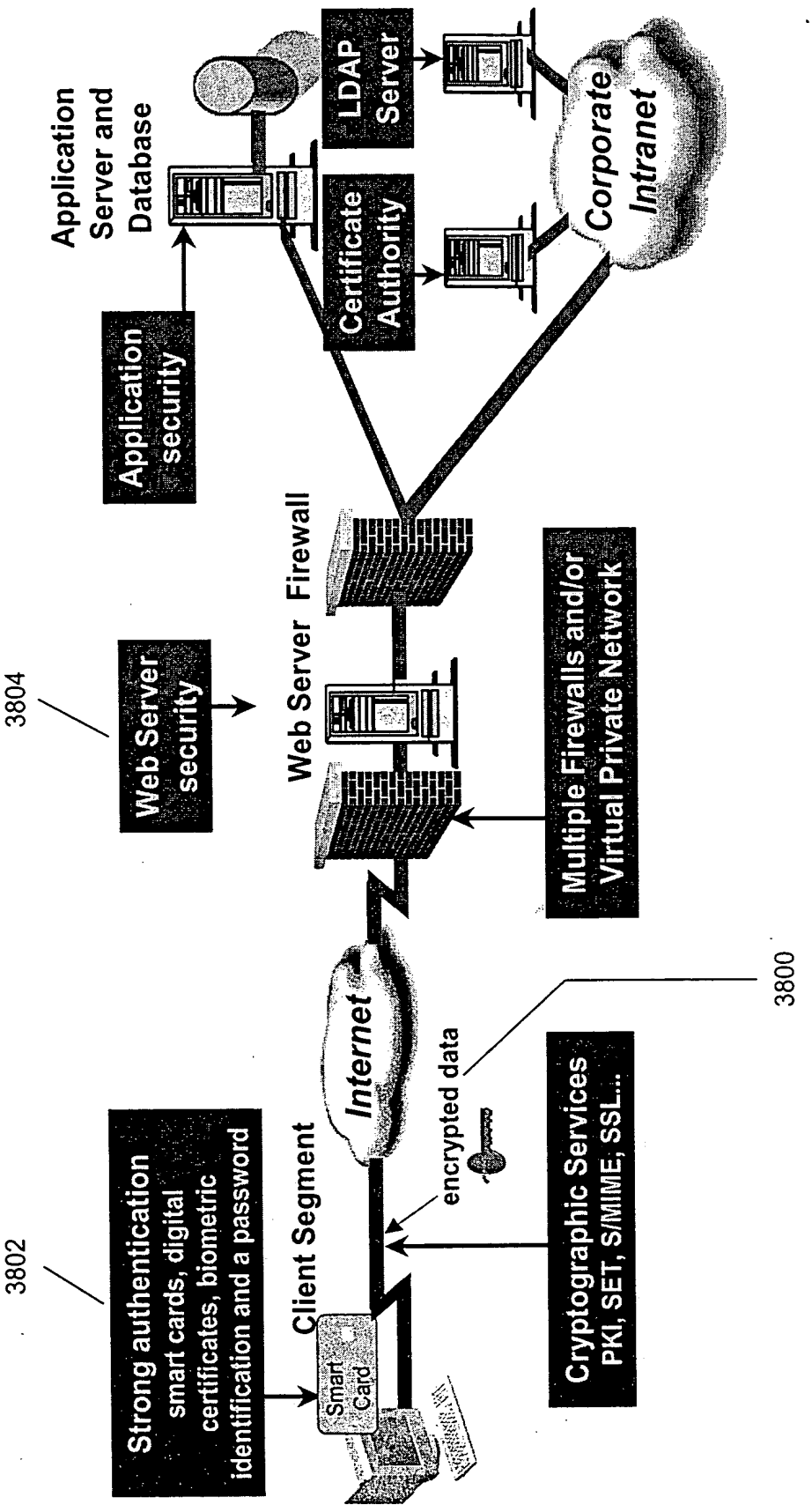

Application Server and Database
LDAP Server
Certificate Authority
Corporate Intranet
Application security
Web Server Firewall
3804
Web Server security
Multiple Firewalls and/or Virtual Private Network
Internet
3800
encrypted data
3802
Strong authentication
smart cards, digital certificates, biometric identification and a password
Client Segment
Smart Card
Cryptographic Services
PKI, SET, S/MIME, SSL...

Figure 38

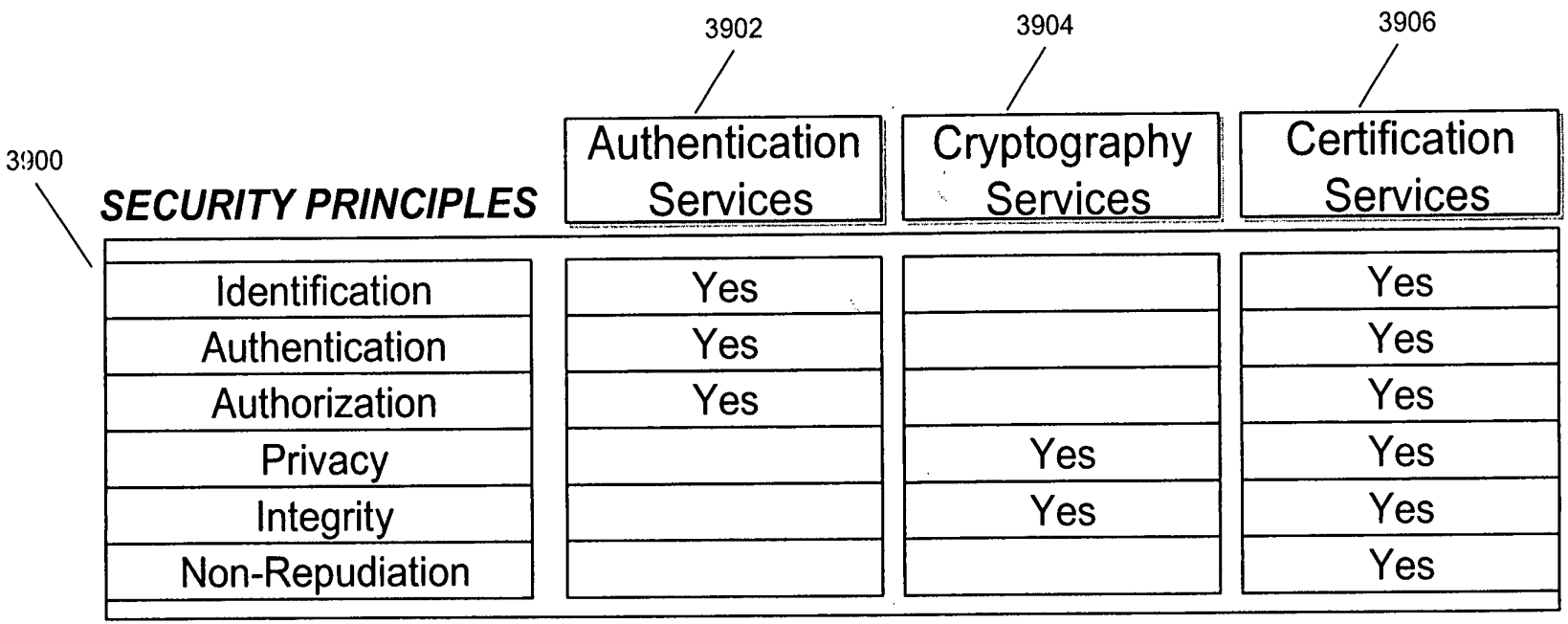


Figure 39

Replacement Sheet

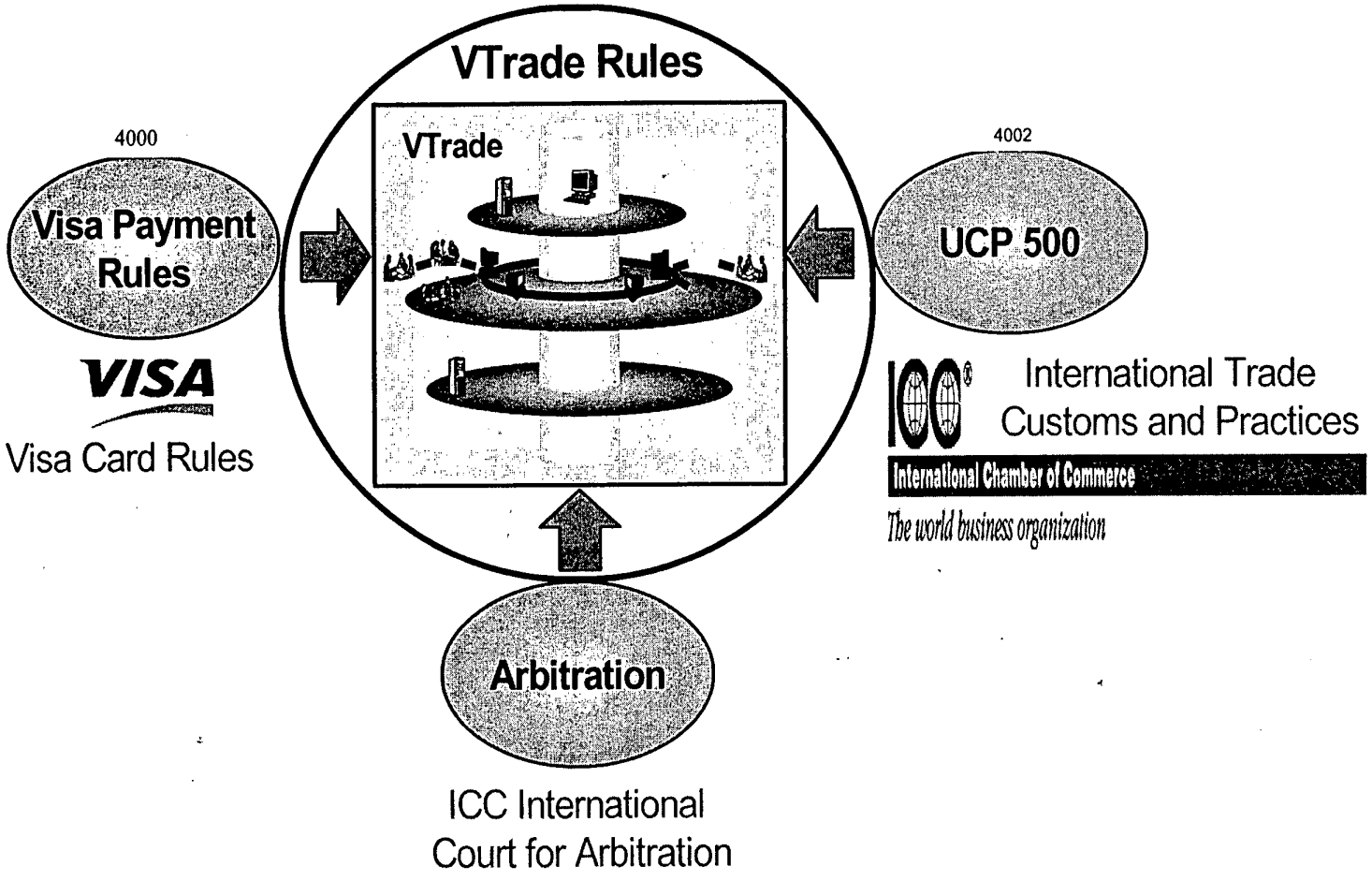


Figure 40

Replacement Sheet

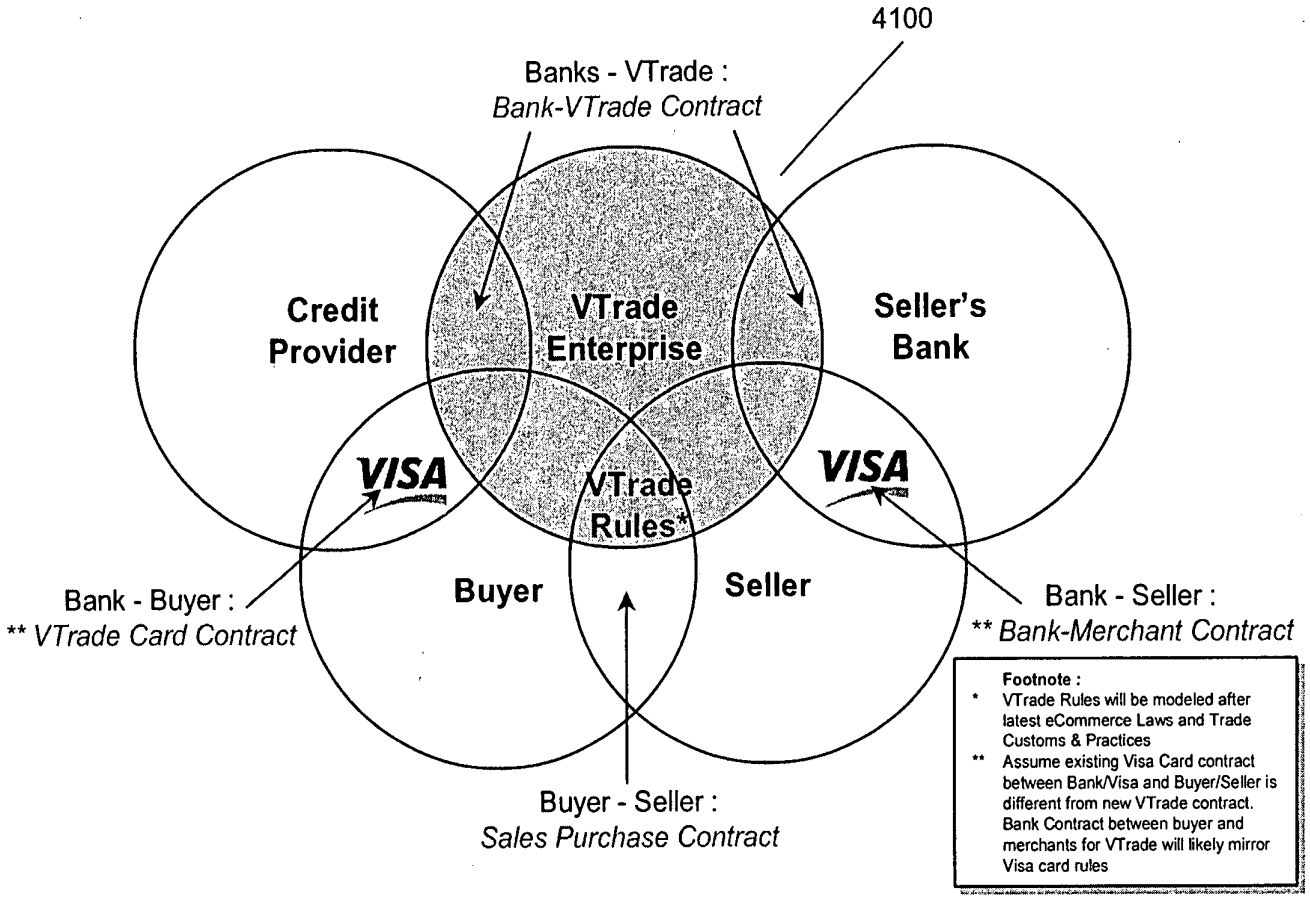


Figure 41

Replacement Sheet

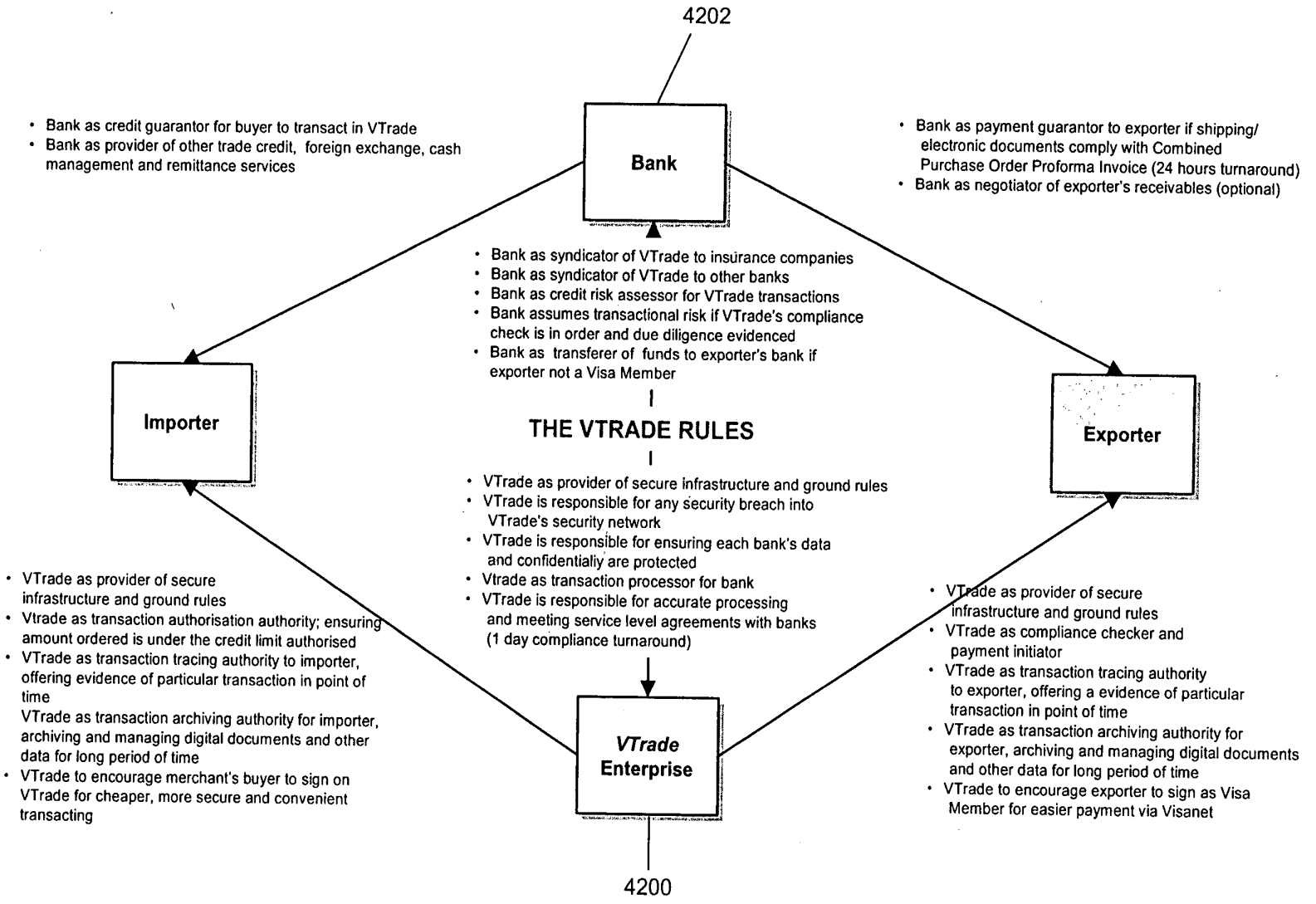


Figure 42

Replacement Sheet

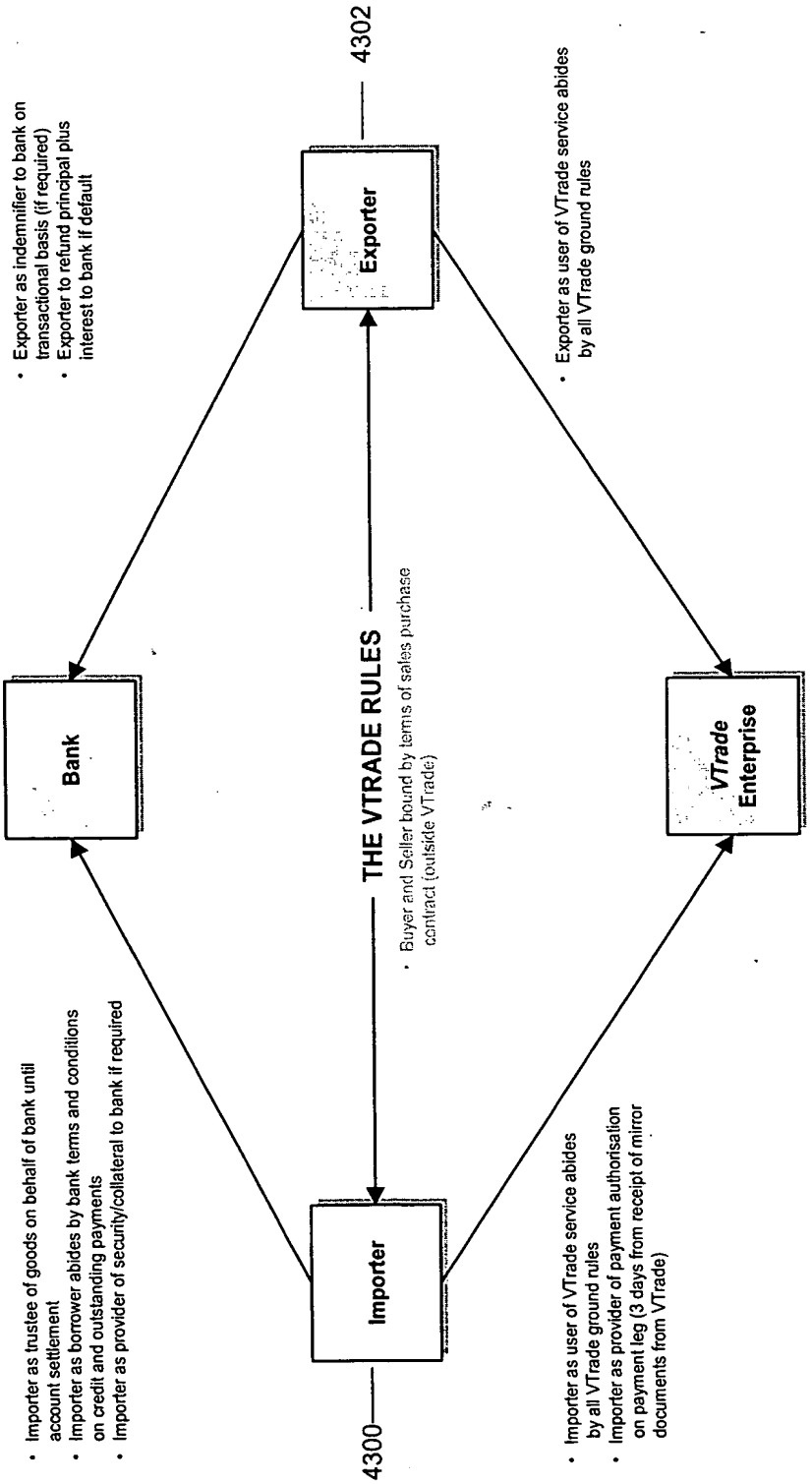

4302
Exporter
Exporter as indemnifier to bank on transactional basis (if required)
Exporter to refund principal plus interest to bank if default
Exporter as user of VTrade service abides by all VTrade ground rules
Bank
THE VTRADE RULES
Buyer and Seller bound by terms of sales purchase contract (outside VTrade)
VTrade Enterprise
Importer as trustee of goods on behalf of bank until account settlement
Importer as borrower abides by bank terms and conditions on credit and outstanding payments
Importer as provider of security/collateral to bank if required
Importer as user of VTrade service abides by all VTrade ground rules
Importer as provider of payment authorisation on payment leg (3 days from receipt of mirror documents from VTrade)
Importer
4300

Figure 43

Figure 44

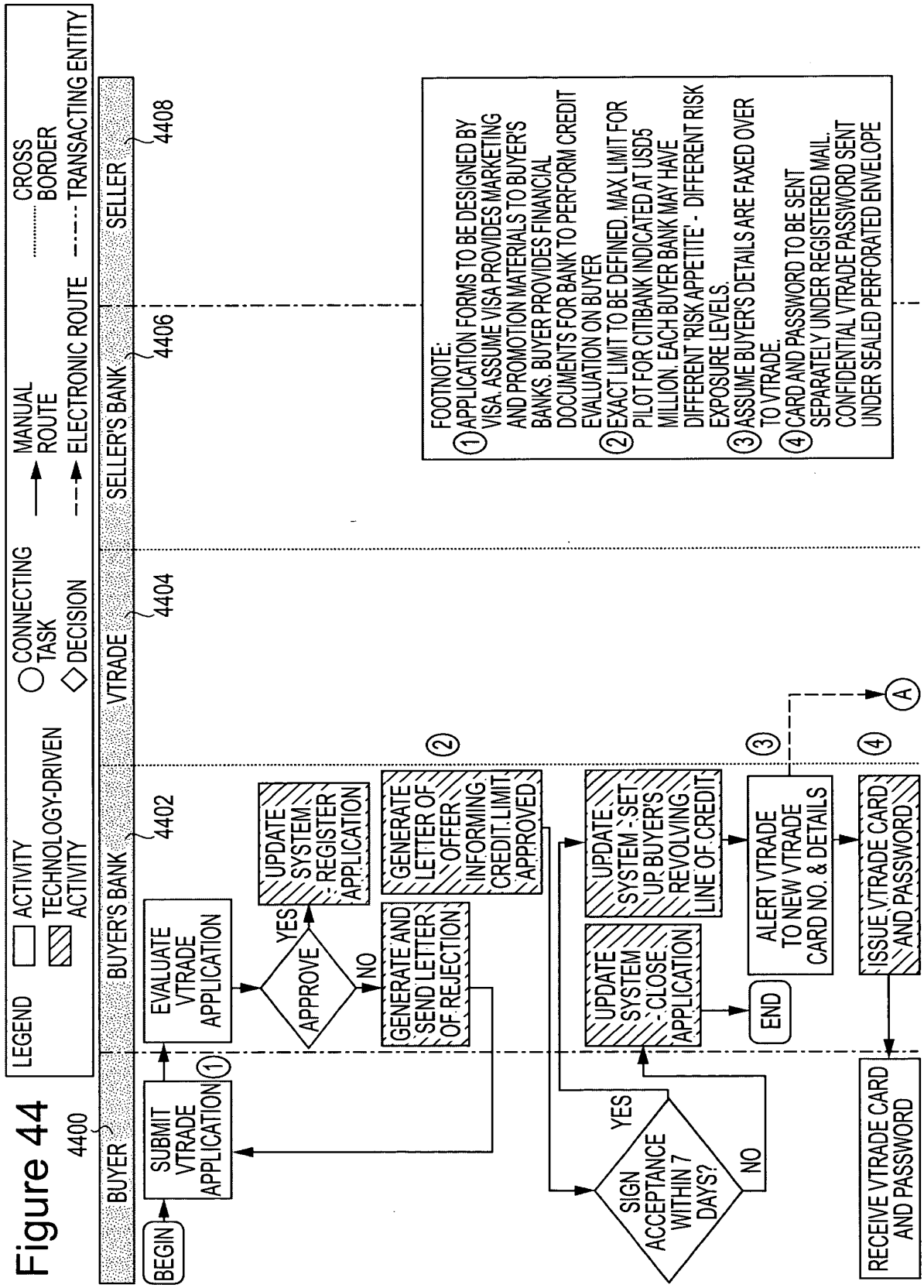

4400
BUYER
BUYER'S BANK
4402
VTRADE
4404
SELLER'S BANK
4406
SELLER
4408
LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BEGIN
SUBMIT VTRADE APPLICATION
①
EVALUATE VTRADE APPLICATION
APPROVE
YES
NO
UPDATE SYSTEM: REGISTER APPLICATION
GENERATE AND SEND LETTER OF REJECTION
②
GENERATE LETTER OF OFFER INFORMING CREDIT LIMIT APPROVED
SIGN ACCEPTANCE WITHIN 7 DAYS?
YES
NO
UPDATE SYSTEM: SET UP BUYER'S REVOLVING LINE OF CREDIT
UPDATE SYSTEM: CLOSE APPLICATION
END
③
ALERT VTRADE TO NEW VTRADE CARD NO. & DETAILS
④
ISSUE VTRADE CARD AND PASSWORD
RECEIVE VTRADE CARD AND PASSWORD
A
FOOTNOTE:
① APPLICATION FORMS TO BE DESIGNED BY VISA. ASSUME VISA PROVIDES MARKETING AND PROMOTION MATERIALS TO BUYER'S BANKS. BUYER PROVIDES FINANCIAL DOCUMENTS FOR BANK TO PERFORM CREDIT EVALUATION ON BUYER
② EXACT LIMIT TO BE DEFINED. MAX LIMIT FOR PILOT FOR CITIBANK INDICATED AT USD5 MILLION. EACH BUYER BANK MAY HAVE DIFFERENT 'RISK APPETITE' - DIFFERENT RISK EXPOSURE LEVELS.
③ ASSUME BUYER'S DETAILS ARE FAXED OVER TO VTRADE.
④ CARD AND PASSWORD TO BE SENT SEPARATELY UNDER REGISTERED MAIL. CONFIDENTIAL VTRADE PASSWORD SENT UNDER SEALED PERFORATED ENVELOPE

Figure 45

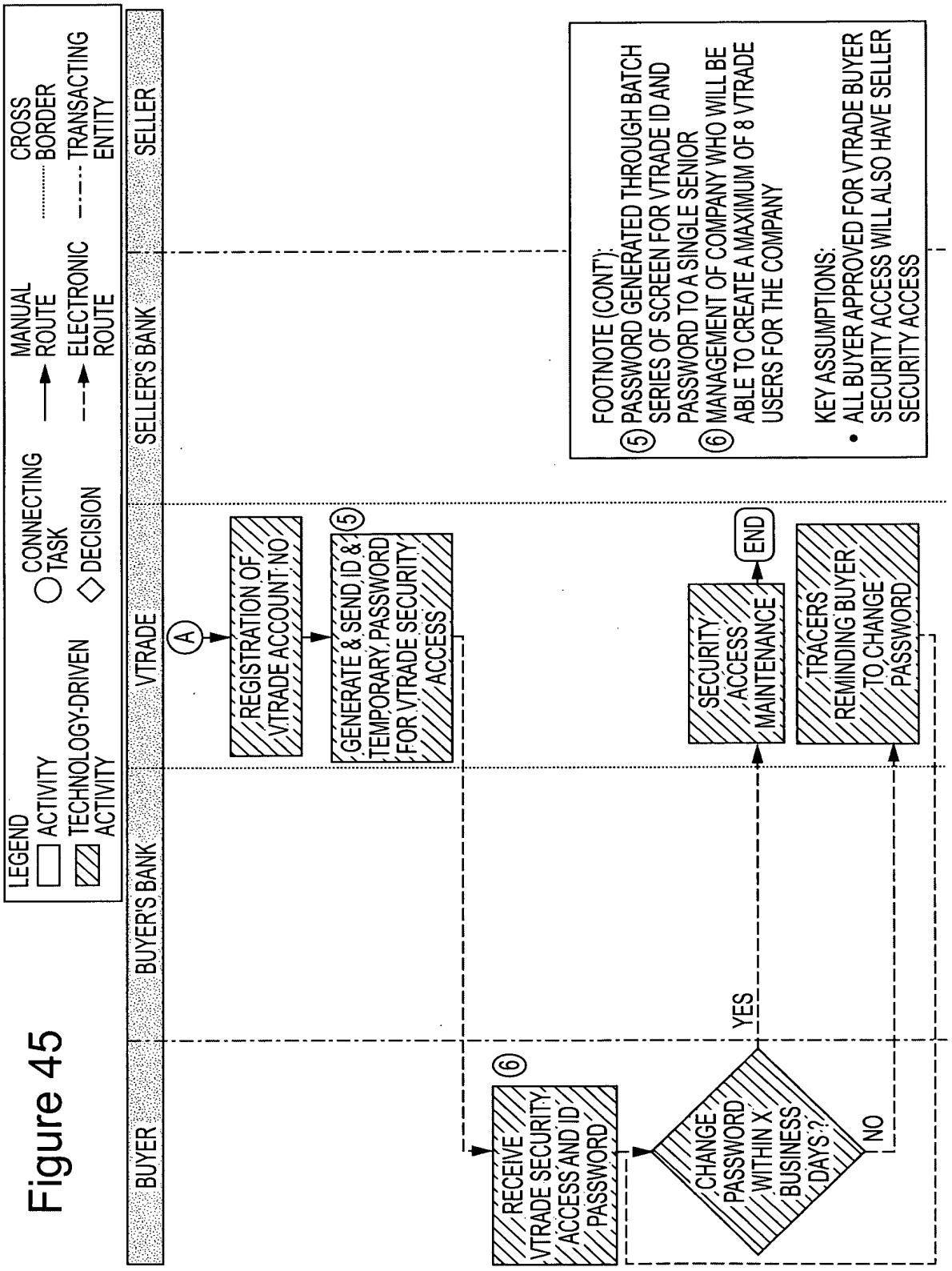

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
A
REGISTRATION OF VTRADE ACCOUNT NO
GENERATE & SEND ID & TEMPORARY PASSWORD FOR VTRADE SECURITY ACCESS
5
RECEIVE VTRADE SECURITY ACCESS AND ID PASSWORD
6
CHANGE PASSWORD WITHIN X BUSINESS DAYS ?
YES
NO
SECURITY ACCESS MAINTENANCE
END
TRACERS REMINDING BUYER TO CHANGE PASSWORD
FOOTNOTE (CONT):
5 PASSWORD GENERATED THROUGH BATCH SERIES OF SCREEN FOR VTRADE ID AND PASSWORD TO A SINGLE SENIOR
6 MANAGEMENT OF COMPANY WHO WILL BE ABLE TO CREATE A MAXIMUM OF 8 VTRADE USERS FOR THE COMPANY
KEY ASSUMPTIONS:
• ALL BUYER APPROVED FOR VTRADE BUYER SECURITY ACCESS WILL ALSO HAVE SELLER SECURITY ACCESS

Figure 46

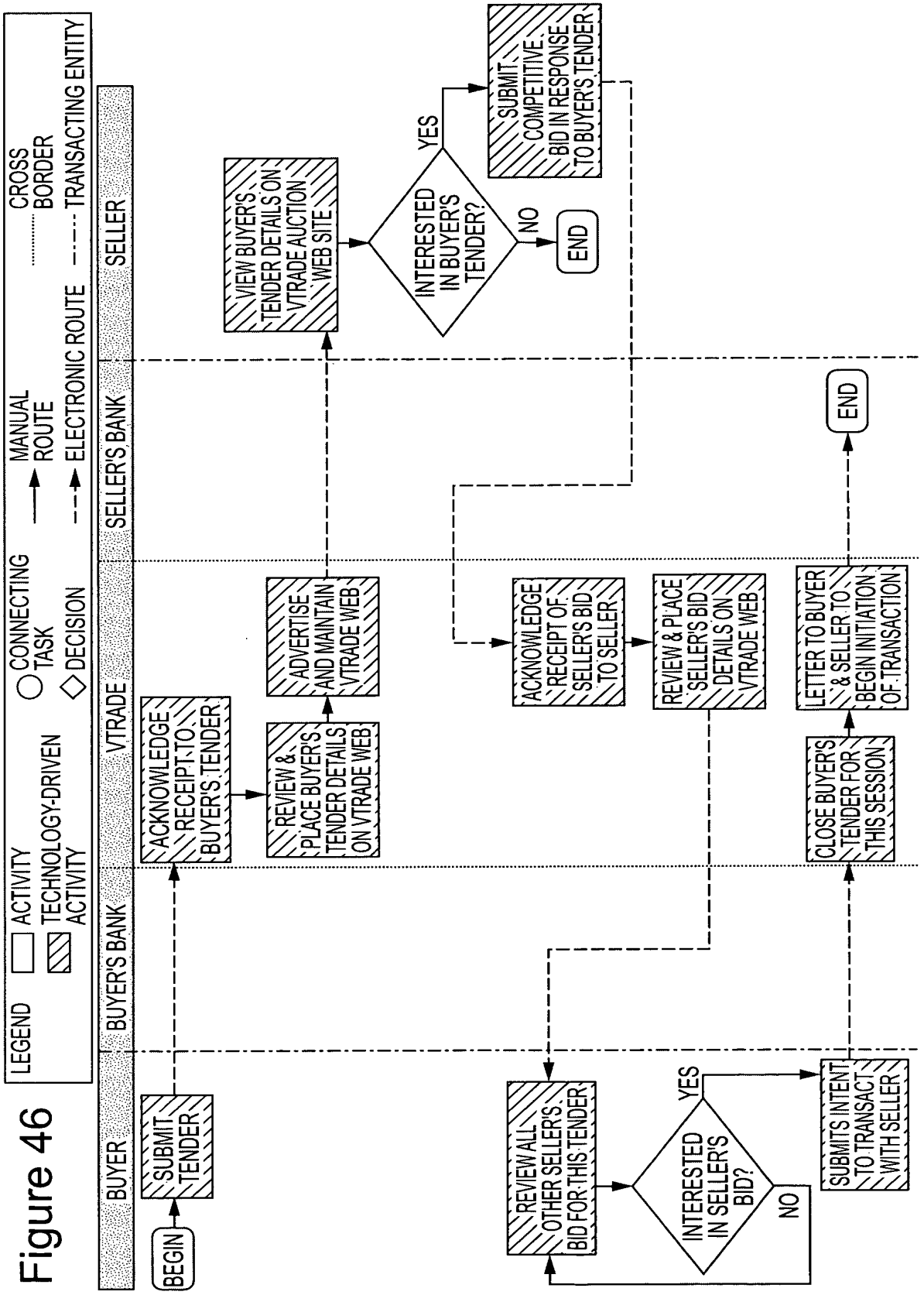

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
BEGIN
SUBMIT TENDER
ACKNOWLEDGE RECEIPT TO BUYER'S TENDER
REVIEW & PLACE BUYER'S TENDER DETAILS ON VTRADE WEB
ADVERTISE AND MAINTAIN VTRADE WEB
VIEW BUYER'S TENDER DETAILS ON VTRADE AUCTION WEB SITE
INTERESTED IN BUYER'S TENDER?
YES
NO
END
SUBMIT COMPETITIVE BID IN RESPONSE TO BUYER'S TENDER
ACKNOWLEDGE RECEIPT OF SELLER'S BID TO SELLER
REVIEW & PLACE SELLER'S BID DETAILS ON VTRADE WEB
LETTER TO BUYER & SELLER TO BEGIN INITIATION OF TRANSACTION
END
CLOSE BUYER'S TENDER FOR THIS SESSION
REVIEW ALL OTHER SELLER'S BID FOR THIS TENDER
INTERESTED IN SELLER'S BID?
YES
NO
SUBMITS INTENT TO TRANSACT WITH SELLER

Figure 47

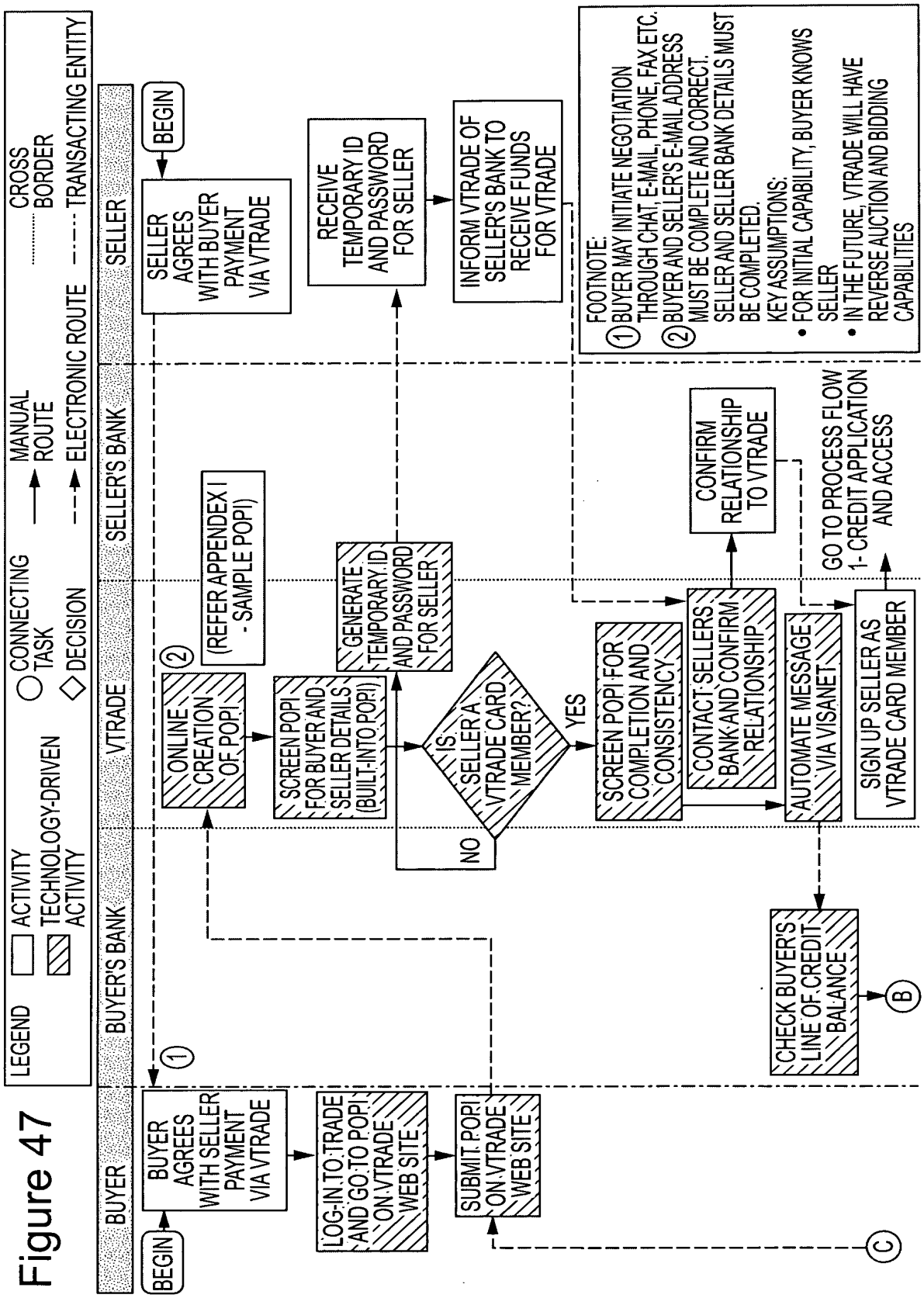

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
BEGIN
BUYER AGREES WITH SELLER PAYMENT VIA VTRADE
LOG-IN TO TRADE AND GO TO POPI ON VTRADE WEB SITE
SUBMIT POPI ON VTRADE WEB SITE
ONLINE CREATION OF POPI
(REFER APPENDEX I - SAMPLE POPI)
SCREEN POPI FOR BUYER AND SELLER DETAILS (BUILT-INTO POPI)
IS SELLER A VTRADE CARD MEMBER?
NO
YES
GENERATE TEMPORARY ID AND PASSWORD FOR SELLER
RECEIVE TEMPORARY ID AND PASSWORD FOR SELLER
SELLER AGREES WITH BUYER PAYMENT VIA VTRADE
INFORM VTRADE OF SELLER'S BANK TO RECEIVE FUNDS FOR VTRADE
SCREEN POPI FOR COMPLETION AND CONSISTENCY
CONTACT SELLER'S BANK AND CONFIRM RELATIONSHIP
CONFIRM RELATIONSHIP TO VTRADE
AUTOMATE MESSAGE VIA VISANET
SIGN UP SELLER AS VTRADE CARD MEMBER
GO TO PROCESS FLOW 1- CREDIT APPLICATION AND ACCESS
CHECK BUYER'S LINE OF CREDIT BALANCE
FOOTNOTE:
① BUYER MAY INITIATE NEGOTIATION THROUGH CHAT, E-MAIL, PHONE, FAX ETC.
② BUYER AND SELLER'S E-MAIL ADDRESS MUST BE COMPLETE AND CORRECT. SELLER AND SELLER BANK DETAILS MUST BE COMPLETED.
KEY ASSUMPTIONS:
• FOR INITIAL CAPABILITY, BUYER KNOWS SELLER
• IN THE FUTURE, VTRADE WILL HAVE REVERSE AUCTION AND BIDDING CAPABILITIES
A
B
C

Figure 48

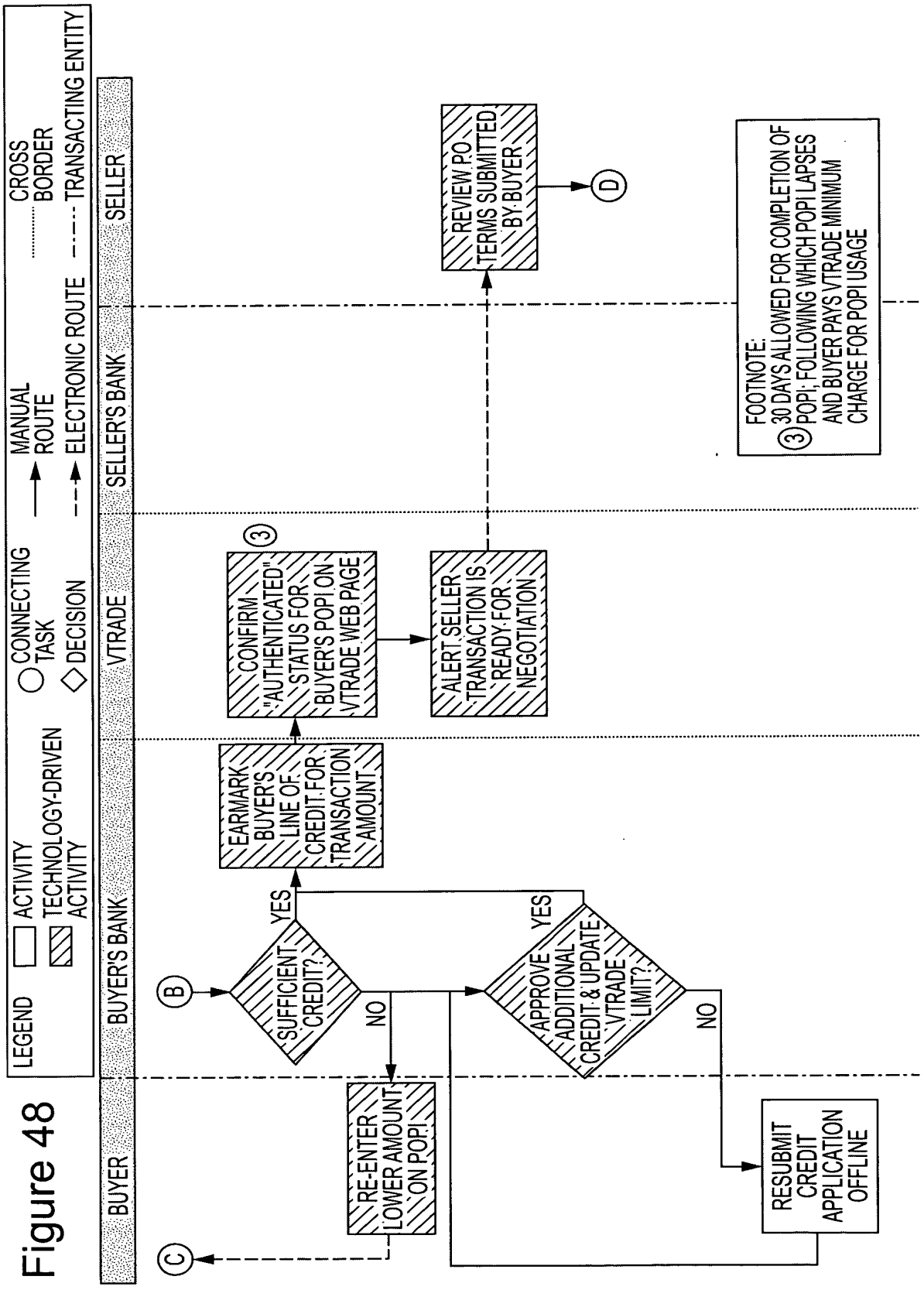

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
B
SUFFICIENT CREDIT?
YES
NO
EARMARK BUYER'S LINE OF CREDIT FOR TRANSACTION AMOUNT
CONFIRM "AUTHENTICATED" STATUS FOR BUYER'S POPI ON VTRADE WEB PAGE
3
ALERT SELLER TRANSACTION IS READY FOR NEGOTIATION
RE-ENTER LOWER AMOUNT ON POPI
C
APPROVE ADDITIONAL CREDIT & UPDATE VTRADE LIMIT?
YES
NO
RESUBMIT CREDIT APPLICATION OFFLINE
REVIEW PO TERMS SUBMITTED BY BUYER
D
FOOTNOTE:
3 30 DAYS ALLOWED FOR COMPLETION OF POPI; FOLLOWING WHICH POPI LAPSES AND BUYER PAYS VTRADE MINIMUM CHARGE FOR POPI USAGE

Figure 49

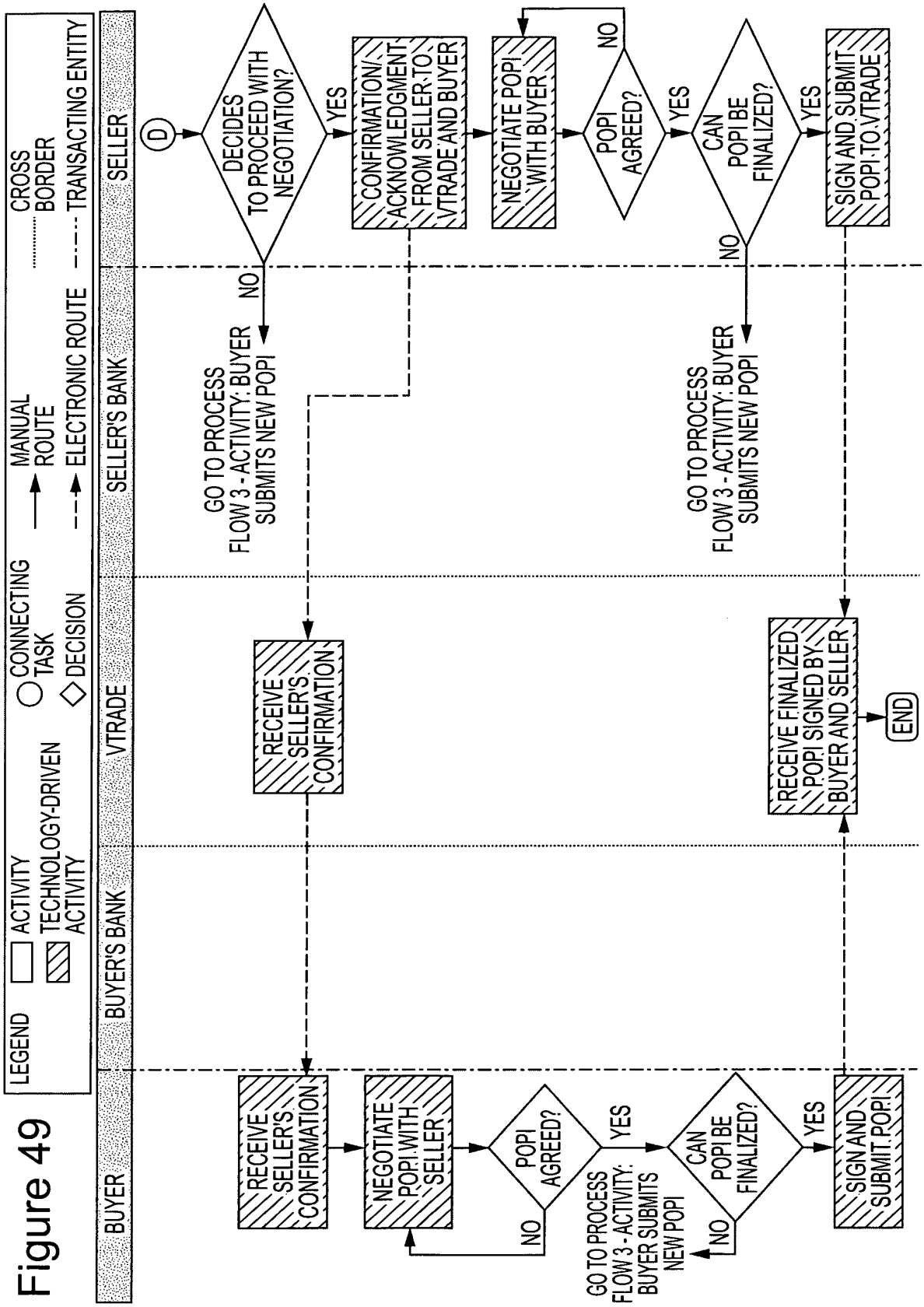

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
D
DECIDES TO PROCEED WITH NEGOTIATION?
YES
NO
GO TO PROCESS FLOW 3 - ACTIVITY: BUYER SUBMITS NEW POPI
CONFIRMATION/ ACKNOWLEDGMENT FROM SELLER TO VTRADE AND BUYER
NEGOTIATE POPI WITH BUYER
POPI AGREED?
NO
YES
CAN POPI BE FINALIZED?
NO
YES
GO TO PROCESS FLOW 3 - ACTIVITY: BUYER SUBMITS NEW POPI
SIGN AND SUBMIT POPI TO VTRADE
RECEIVE SELLER'S CONFIRMATION
RECEIVE SELLER'S CONFIRMATION
NEGOTIATE POPI WITH SELLER
POPI AGREED?
NO
YES
GO TO PROCESS FLOW 3 - ACTIVITY: BUYER SUBMITS NEW POPI
CAN POPI BE FINALIZED?
NO
YES
SIGN AND SUBMIT POPI
RECEIVE FINALIZED POPI SIGNED BY BUYER AND SELLER
END

Figure 50

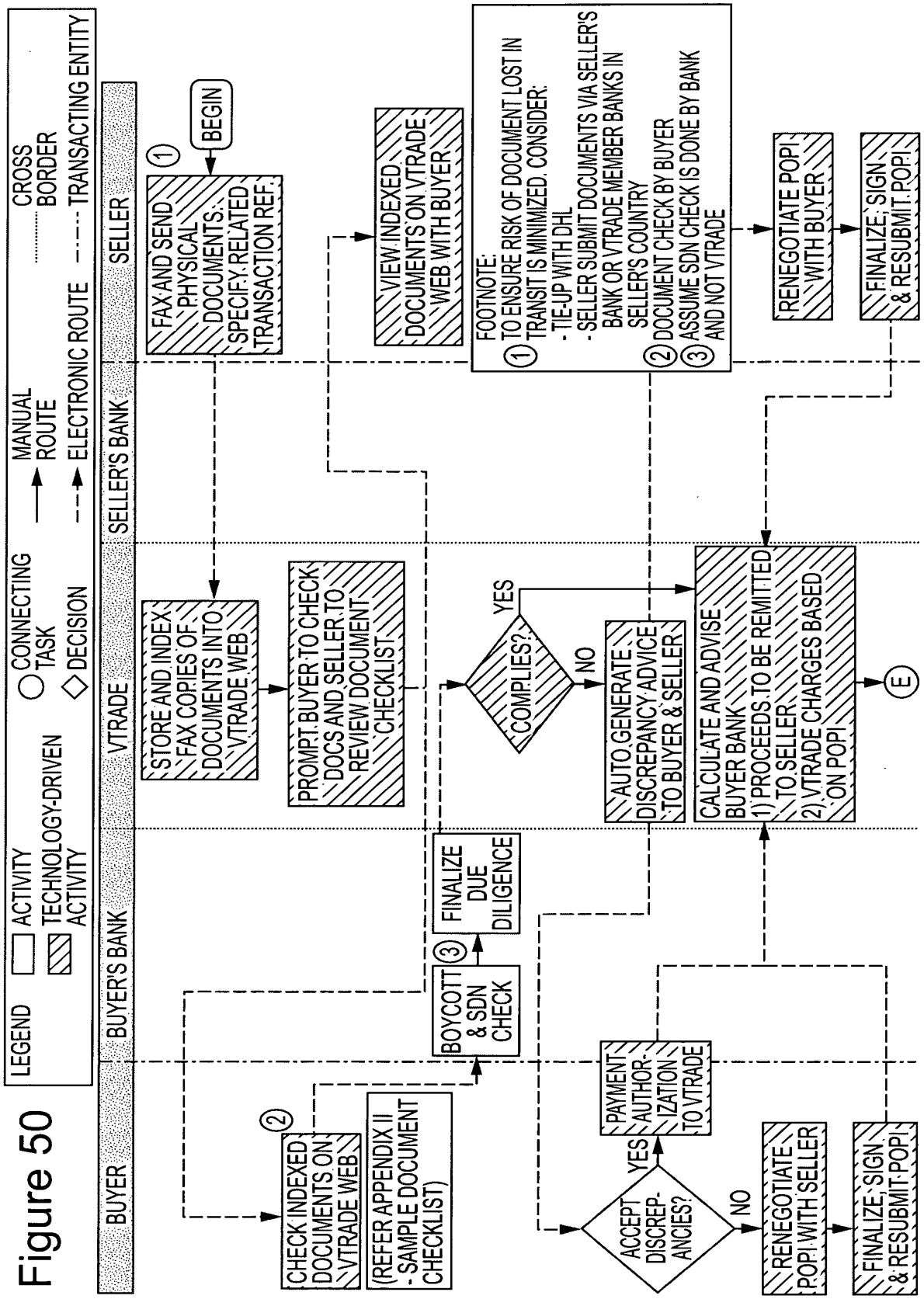

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
BEGIN
1
FAX AND SEND PHYSICAL DOCUMENTS; SPECIFY RELATED TRANSACTION REF.
STORE AND INDEX FAX COPIES OF DOCUMENTS INTO VTRADE WEB
PROMPT BUYER TO CHECK DOCS AND SELLER TO REVIEW DOCUMENT CHECKLIST
VIEW INDEXED DOCUMENTS ON VTRADE WEB WITH BUYER
FOOTNOTE:
1 TO ENSURE RISK OF DOCUMENT LOST IN TRANSIT IS MINIMIZED, CONSIDER:
- TIE-UP WITH DHL
- SELLER SUBMIT DOCUMENTS VIA SELLER'S BANK OR VTRADE MEMBER BANKS IN SELLER'S COUNTRY
2 DOCUMENT CHECK BY BUYER
3 ASSUME SDN CHECK IS DONE BY BANK AND NOT VTRADE
YES
COMPLIES?
NO
AUTO GENERATE DISCREPANCY ADVICE TO BUYER & SELLER
CALCULATE AND ADVISE BUYER BANK 1) PROCEEDS TO BE REMITTED TO SELLER 2) VTRADE CHARGES BASED ON POPI
RENEGOTIATE POPI WITH BUYER
FINALIZE; SIGN & RESUBMIT POPI
E
3
BOYCOTT & SDN CHECK
FINALIZE DUE DILIGENCE
2
CHECK INDEXED DOCUMENTS ON VTRADE WEB
(REFER APPENDIX II - SAMPLE DOCUMENT CHECKLIST)
ACCEPT DISCREP-ANCIES?
YES
NO
PAYMENT AUTHOR-IZATION TO VTRADE
RENEGOTIATE POPI WITH SELLER
FINALIZE; SIGN & RESUBMIT POPI

Figure 51

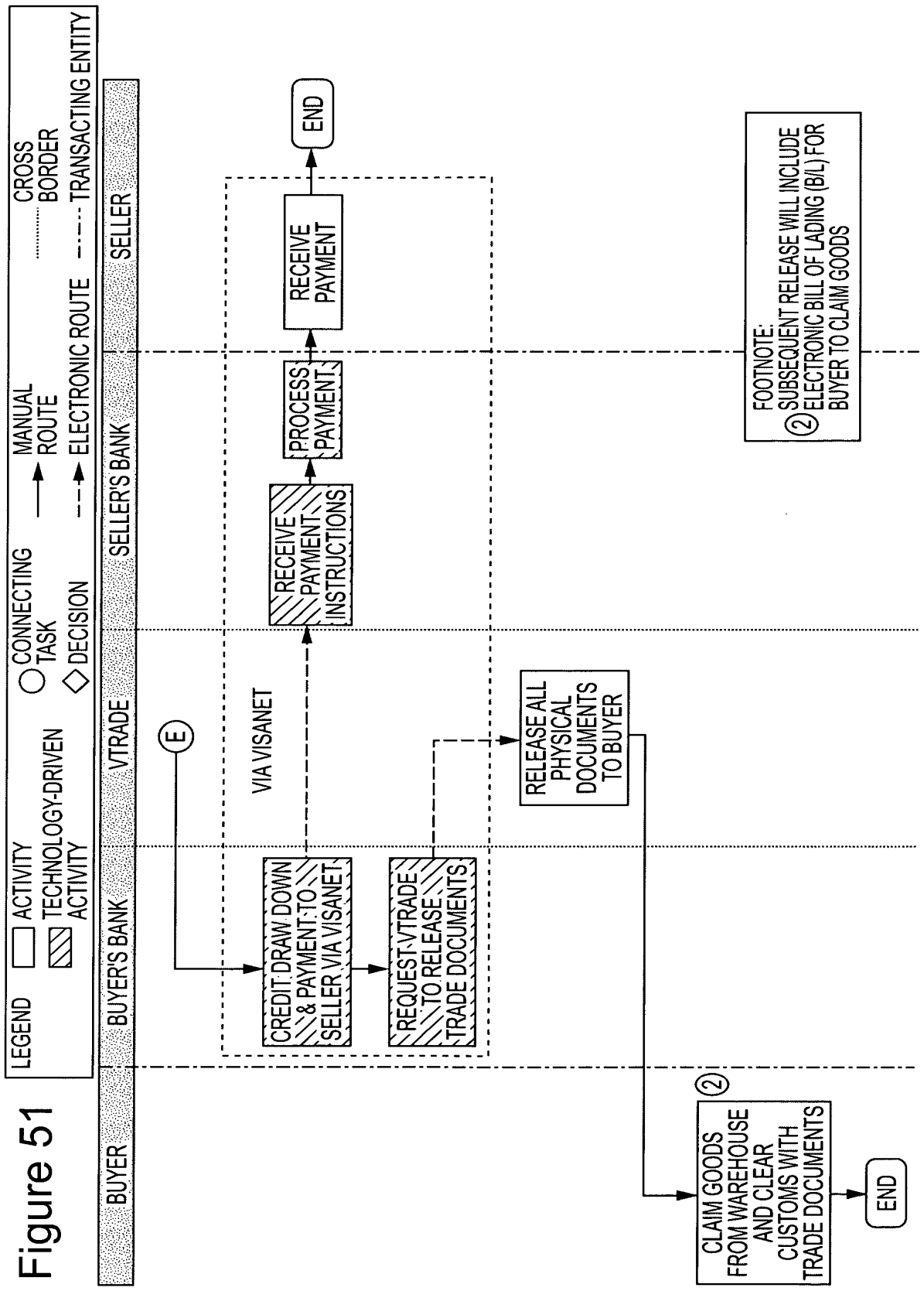
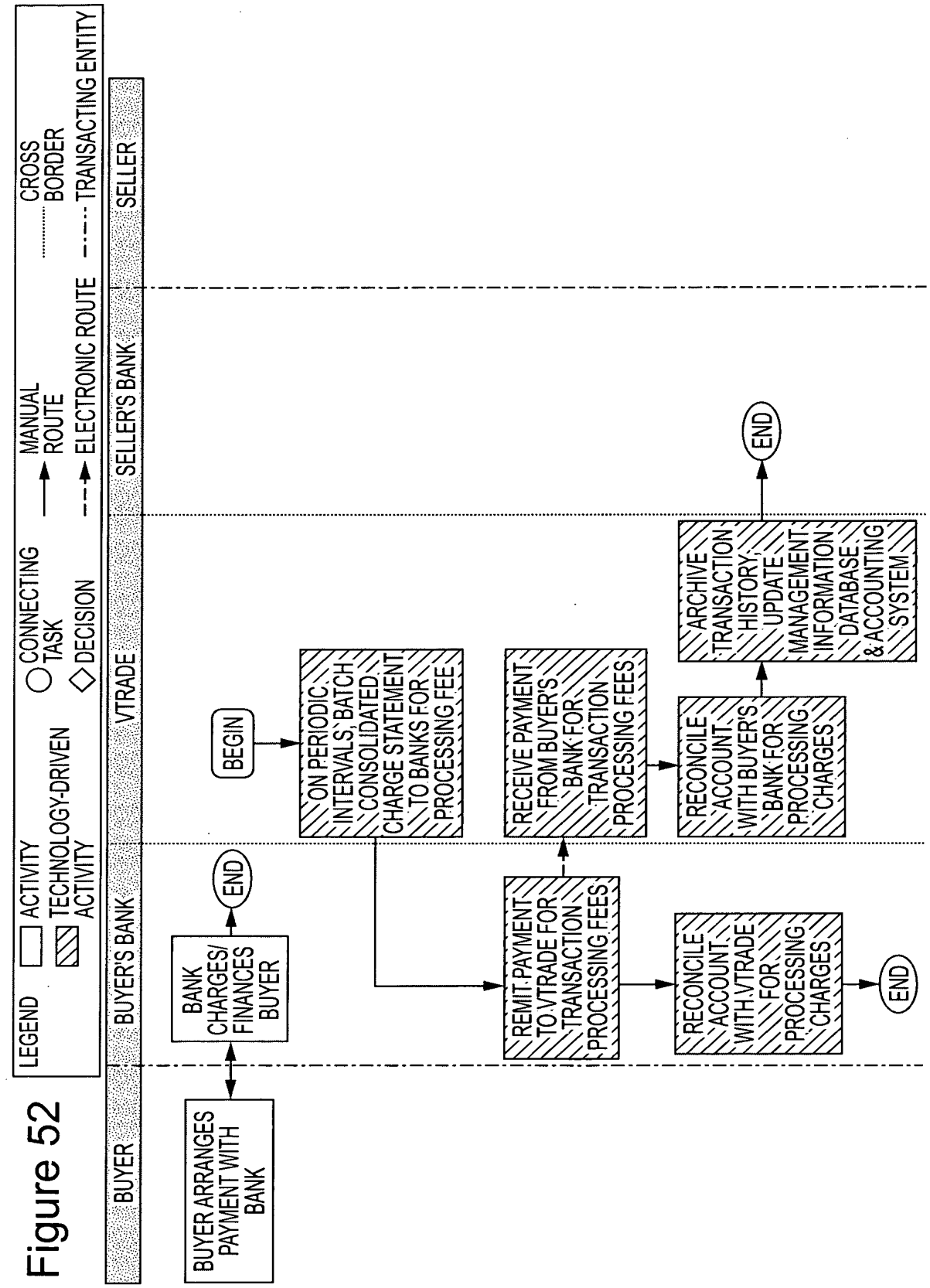

LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
E
CREDIT DRAW DOWN & PAYMENT TO SELLER VIA VISANET
REQUEST VTRADE TO RELEASE TRADE DOCUMENTS
VIA VISANET
RECEIVE PAYMENT INSTRUCTIONS
PROCESS PAYMENT
RECEIVE PAYMENT
END
RELEASE ALL PHYSICAL DOCUMENTS TO BUYER
FOOTNOTE:
② SUBSEQUENT RELEASE WILL INCLUDE ELECTRONIC BILL OF LADING (B/L) FOR BUYER TO CLAIM GOODS
②
CLAIM GOODS FROM WAREHOUSE AND CLEAR CUSTOMS WITH TRADE DOCUMENTS
END

Figure 52


LEGEND
ACTIVITY
TECHNOLOGY-DRIVEN ACTIVITY
CONNECTING TASK
DECISION
MANUAL ROUTE
ELECTRONIC ROUTE
CROSS BORDER
TRANSACTING ENTITY
BUYER
BUYER'S BANK
VTRADE
SELLER'S BANK
SELLER
BUYER ARRANGES PAYMENT WITH BANK
BANK CHARGES/ FINANCES BUYER
END
BEGIN
ON PERIODIC INTERVALS, BATCH CONSOLIDATED CHARGE STATEMENT TO BANKS FOR PROCESSING FEE
REMIT PAYMENT TO VTRADE FOR TRANSACTION PROCESSING FEES
RECEIVE PAYMENT FROM BUYER'S BANK FOR TRANSACTION PROCESSING FEES
RECONCILE ACCOUNT WITH VTRADE FOR PROCESSING CHARGES
END
RECONCILE ACCOUNT WITH BUYER'S BANK FOR PROCESSING CHARGES
ARCHIVE TRANSACTION HISTORY; UPDATE MANAGEMENT INFORMATION DATABASE & ACCOUNTING SYSTEM
END

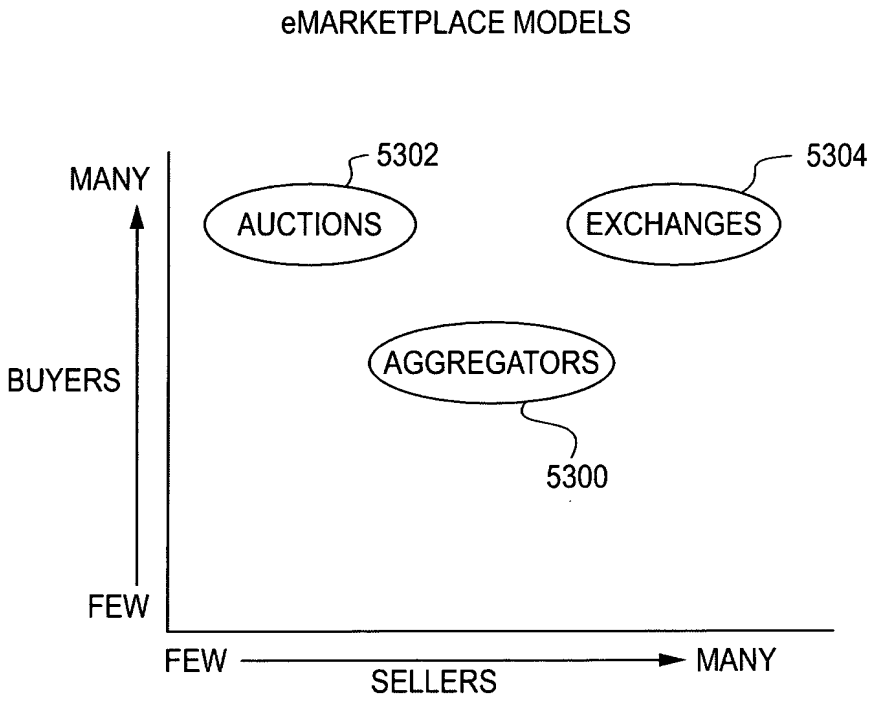

eMARKETPLACE MODELS
MANY
BUYERS
FEW
5302
AUCTIONS
5304
EXCHANGES
AGGREGATORS
5300
FEW
SELLERS
MANY

Figure 53

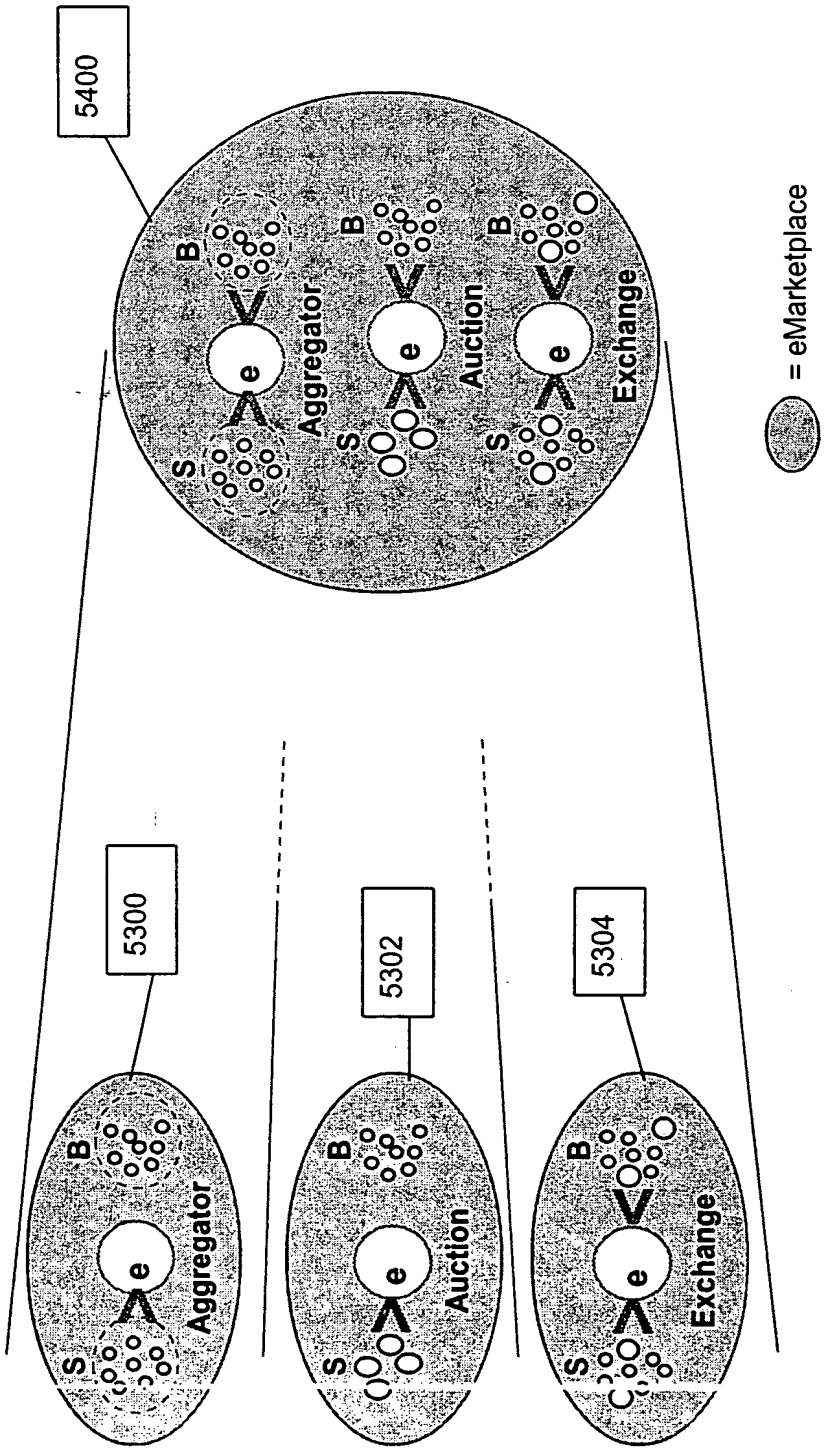

5400
B
S
e
Aggregator
B
S
e
Auction
B
S
e
Exchange
= eMarketplace
5300
5302
5304
B
S
e
Aggregator
B
S
e
Auction
B
S
e
Exchange

Figure 54

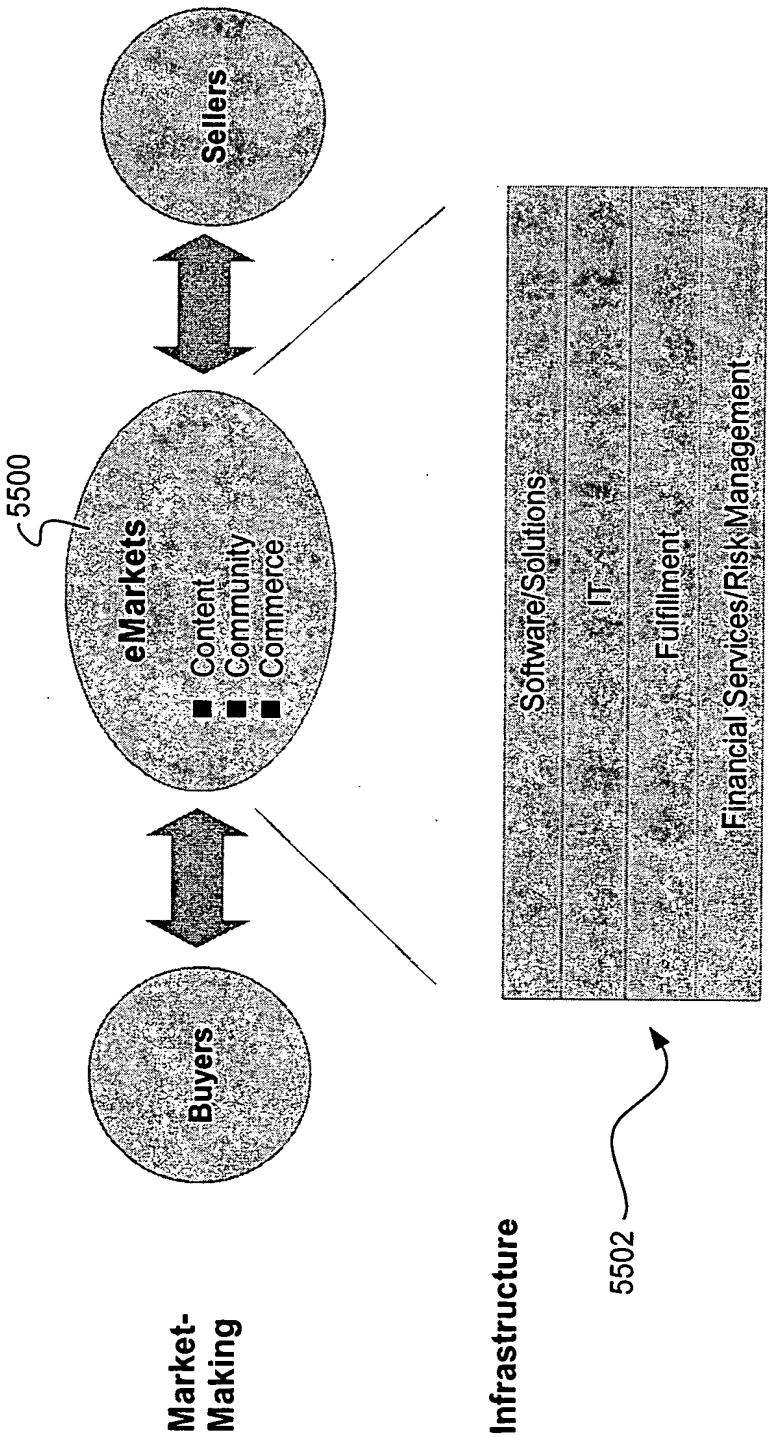

Sellers
5500
eMarkets
Content
Community
Commerce
Buyers
Market-Making
Software/Solutions
IT
Fulfillment
Financial Services/Risk Management
Infrastructure
5502

Figure 55

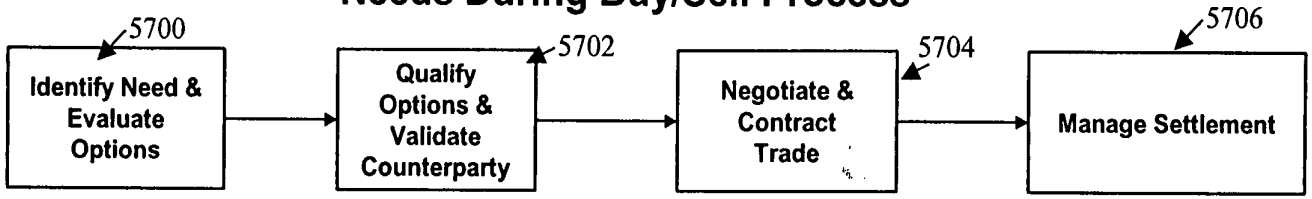
Infrastructure

		Description	Examples
5600	Software/ Solutions	■ The software which makes the site run	■ Auction engine ■ Content management ■ ERP integration software
5602	IT	■ Setting up the site and providing ongoing maintenance	■ Systems integration ■ Hosting ■ Application Service Providers
5604	Fulfillment	■ Organizing the physical settlement of trades after they have been agreed upon	■ Shipping ■ Warehousing ■ Inspection
5606	Financial Services/ Risk Management	■ Facilitating the financing and transfer of funds between parties to a transaction ■ Minimizing the risks of fraud, reneging, etc., at this exchange and providing tools to mitigate trade-related risks	■ Payment processing ■ Receivables management ■ Financing/ credit ■ Authentication ■ Warranties ■ Derivatives/options

Figure 56

Replacement Sheet

Needs During Buy/Sell Process



Buyer	■ Needs assessment tools ■ Assistance in selecting an appropriate product to buy ■ Access to consistent product information ■ Access to consistent market information	■ Ability to check/assess product availability and supply ■ Ability to check/assess product and pricing information ■ Tools to determine seller's ability to perform	■ Assistance in negotiating and deal structuring ■ Advice on financial options ■ Guidance on securing financing	■ Ability to track order and fulfillment ■ Arranging receipt and inspection of product ■ Automated release of funds upon approval
Seller	■ Identification and assessment of customer needs ■ Assistance in selecting the appropriate product to sell ■ Access to consistent product information ■ Access to consistent market information	■ Determine market demand for products ■ Ability to assess pricing movements (spot, trends) ■ Ability to validate buyers' ability to pay	■ Perform credit risk assessment ■ Assistance in deal / trade structuring ■ Guidance on financial options available	■ Integration with order processing area ■ Ability to track order and fulfillment ■ Automated receipt and posting of funds

Figure 57

Replacement Sheet

Figure 58A

Figure 58B

Figure 58

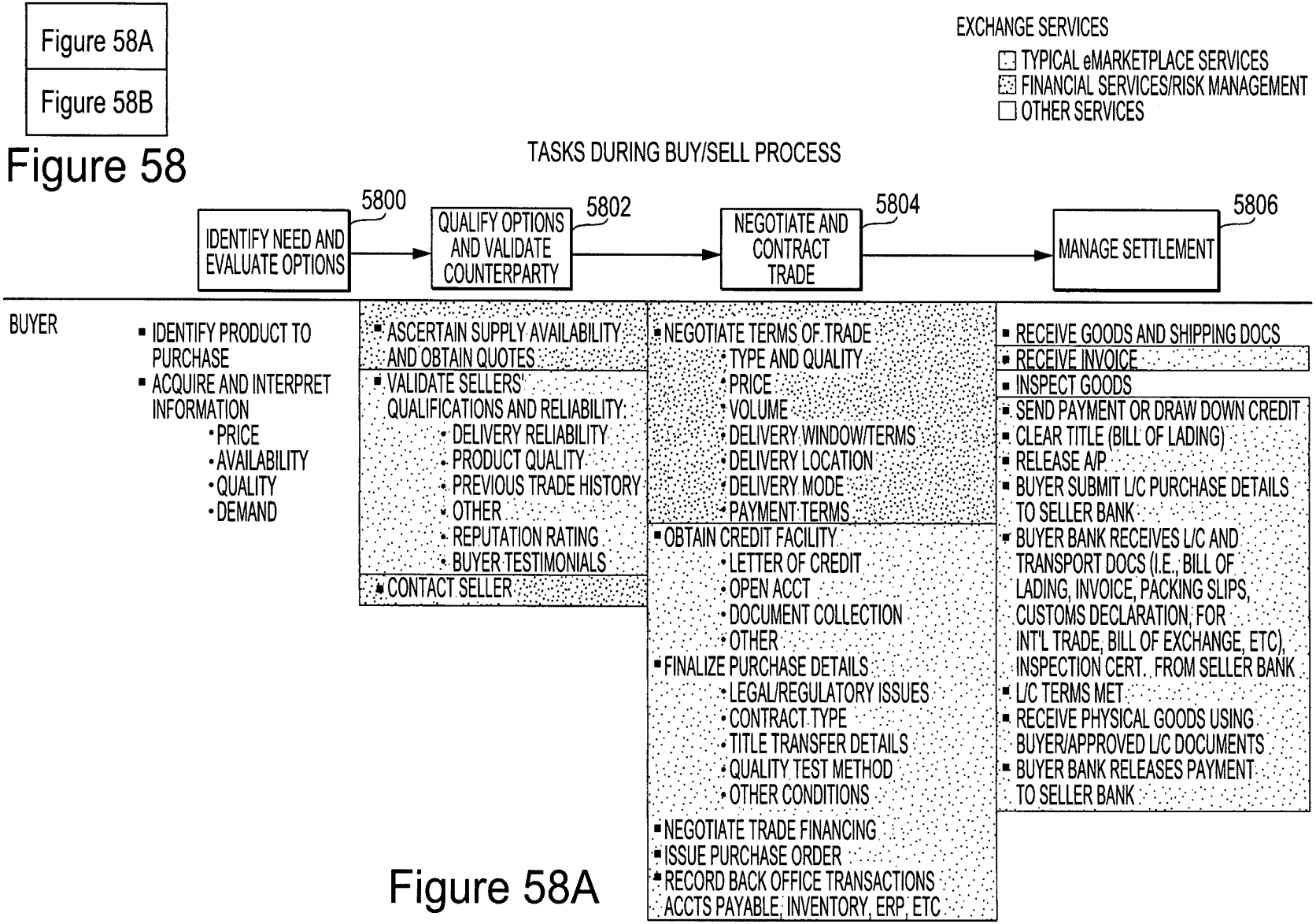


Figure 58A

Replacement Sheet

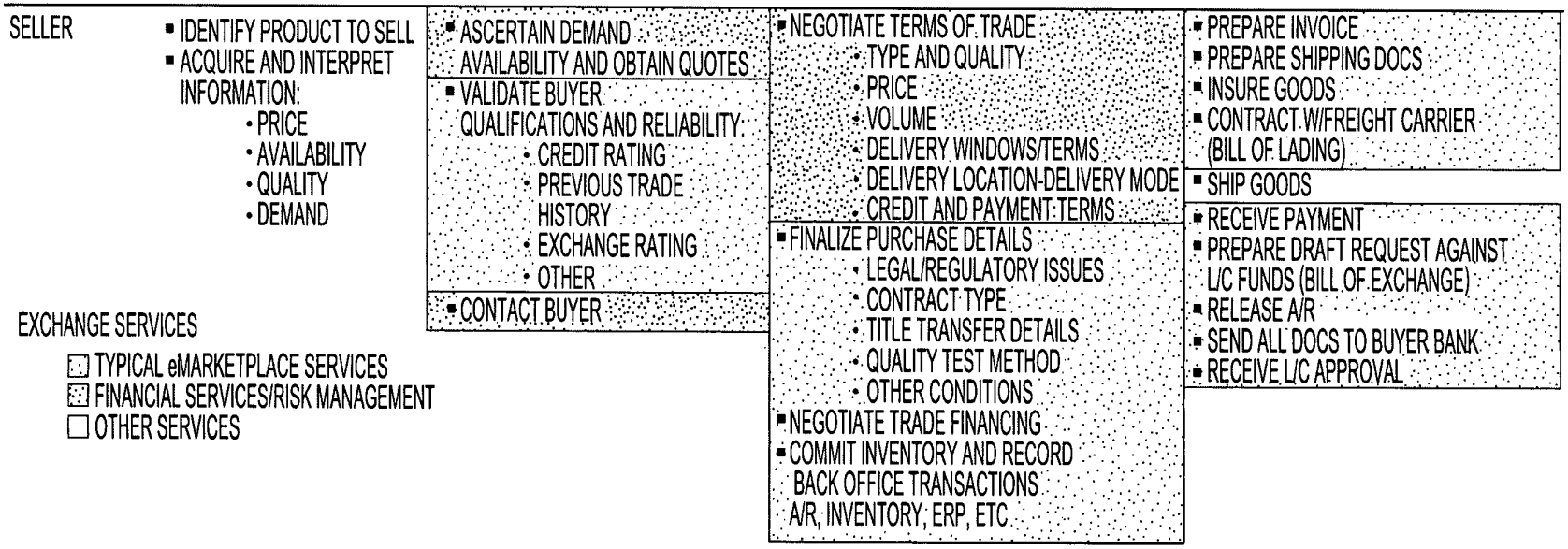


Figure 58B

Replacement Sheet

Service Area	Service	Buyer/Seller Value Proposition	eMkt Place Value Proposition
Reputation Assessment 5900	■ Online documentation of credit worthiness included in profile ■ Credit rating engine based on historical transaction data ■ Member-specified credit rating ■ Authentication when using site	■ Increases member confidence in trading partners	■ Increases transaction volume and transaction-related revenues ■ Potential service revenue (per credit profile provision)
Financing 5902	■ Lines of credit, leasing, inventory financing ■ Factoring, forfeiting, and other receivables financing services	■ Provides access to cash flow management services	■ Increases member entanglement ■ Potential referral revenue
Risk Management 5904	■ Foreign exchange services ■ Insurance ■ Hedging tools	■ Provides access to services that might be otherwise unavailable to small members ■ Provides seamless service that is more convenient than existing services (e.g., "one click")	■ Increases member entanglement ■ Potential referral revenue
ePayments 5906	■ Credit Cards, ACH, SWIFT, wire transfers ■ Letters of credit, documentary collection, or other intermediated payment vehicles, guaranteed payment ■ Electronic bill presentment and payment ■ Online document management	■ Reduces counterparty payment risk ■ Reduces transaction costs and time required to complete payment processing ■ Increases speed and accuracy of document processing	■ Potential to increase qualified member market / transaction volume and revenue ■ Potential referral revenue Potential per-transaction revenue ■ Facilitates eMarketplace revenue model
Information 5908	■ Industry or product-related news ■ Specific roles/regs ■ Contacts and resources ■ Decisions support/advice	■ Enables informed decisions ■ Provides real insights ■ Can access additional info without leaving site	■ Increases member usage and entanglement ■ Positions provider as credible and knowledgeable resource ■ Possible fee for service generator

Figure 59

Replacement Sheet

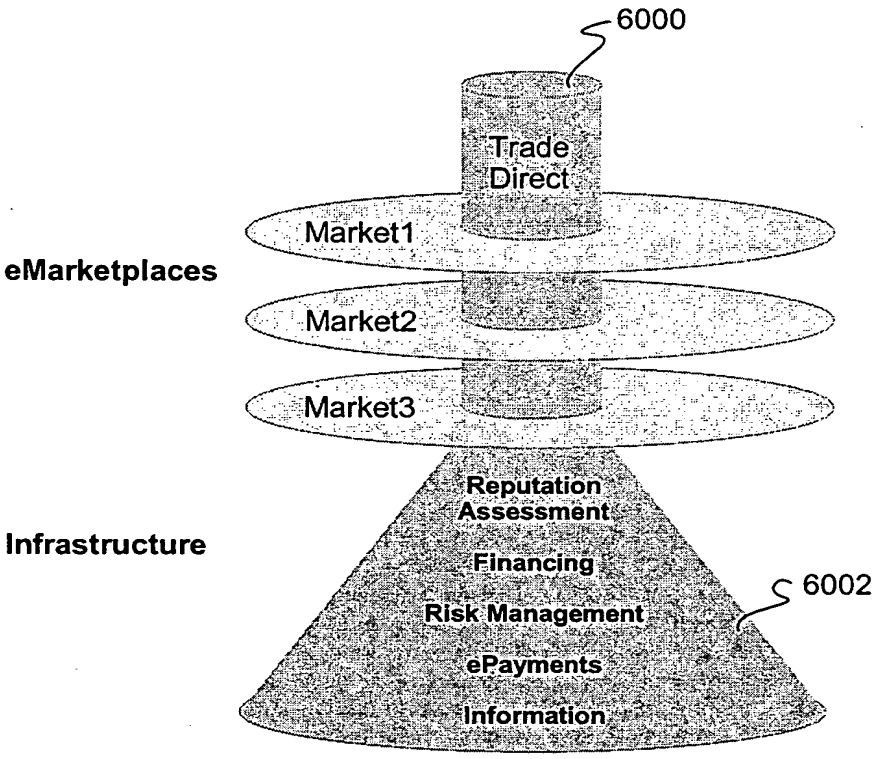

6000
Trade
Direct
Market1
eMarketplaces
Market2
Market3
Reputation
Assessment
Infrastructure
Financing
6002
Risk Management
ePayments
Information

Figure 60

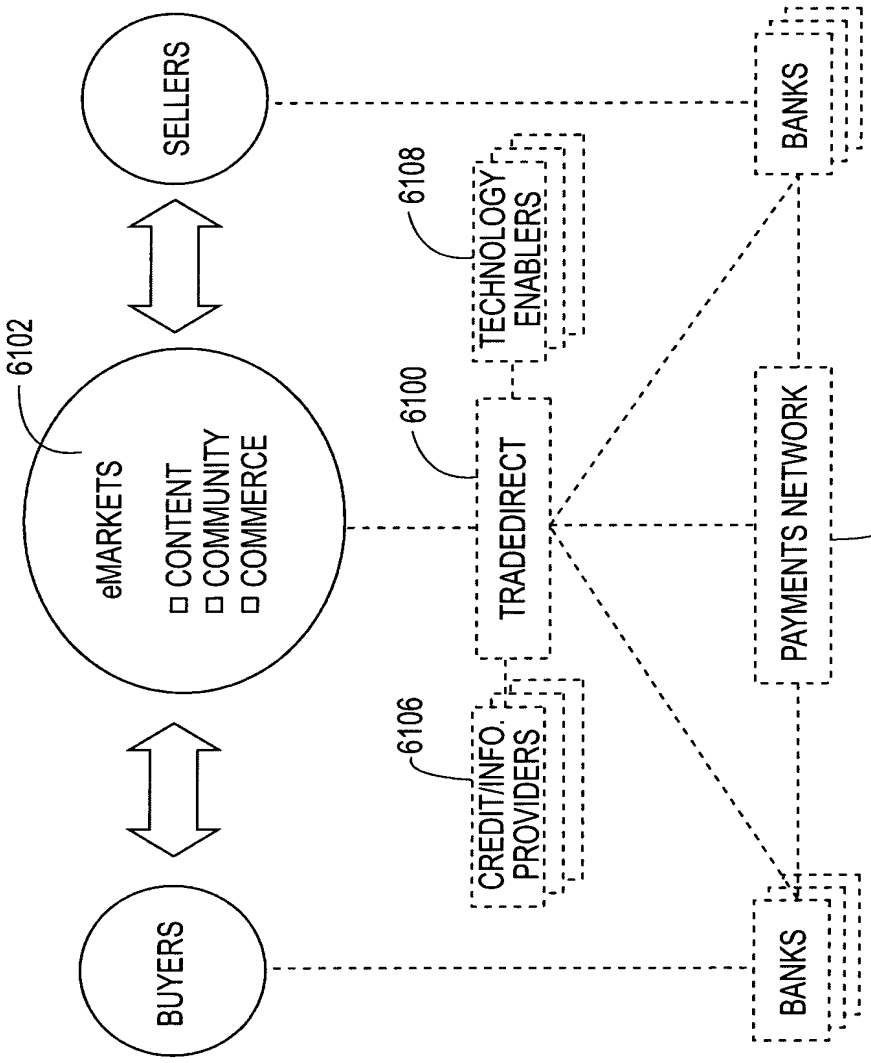

SELLERS
BUYERS
6102
eMARKETS
CONTENT
COMMUNITY
COMMERCE
6100
TRADEDIRECT
6108
TECHNOLOGY ENABLERS
6106
CREDIT/INFO. PROVIDERS
BANKS
BANKS
PAYMENTS NETWORK
6104

Figure 61

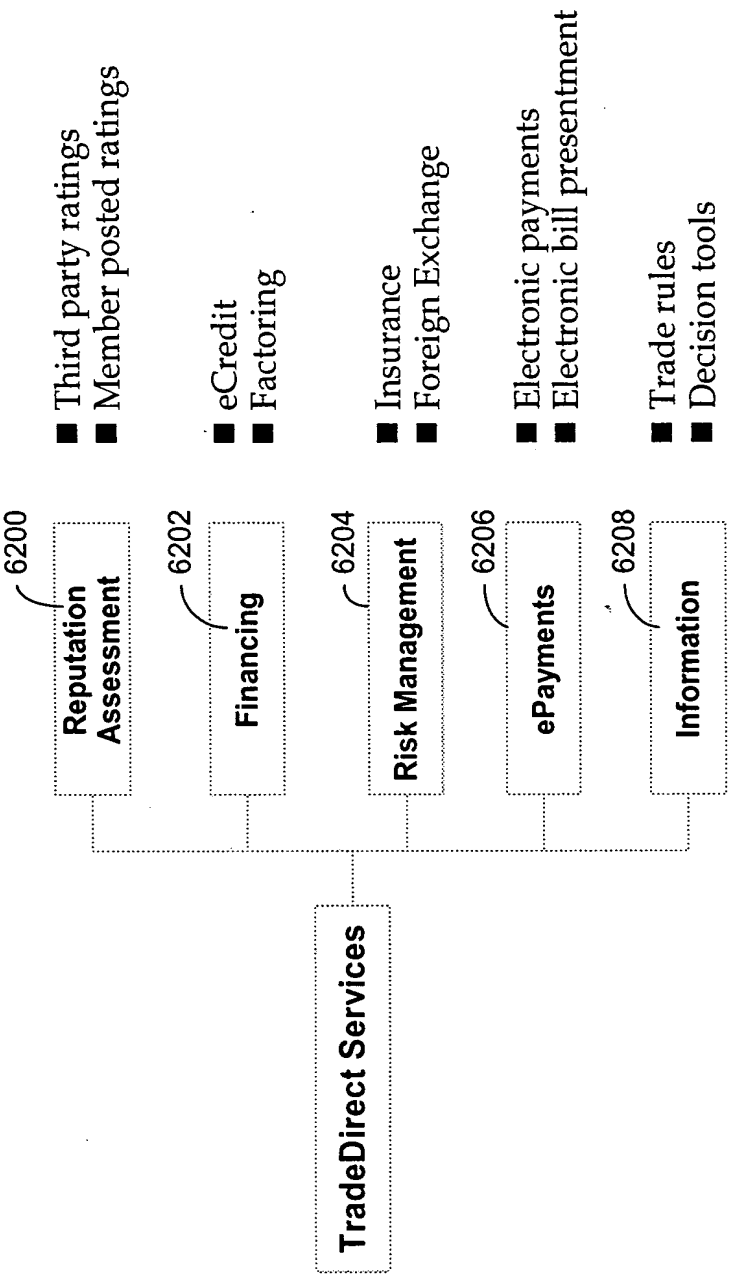

TradeDirect Services
6200
Reputation Assessment
Third party ratings
Member posted ratings
6202
Financing
eCredit
Factoring
6204
Risk Management
Insurance
Foreign Exchange
6206
ePayments
Electronic payments
Electronic bill presentment
6208
Information
Trade rules
Decision tools

Figure 62

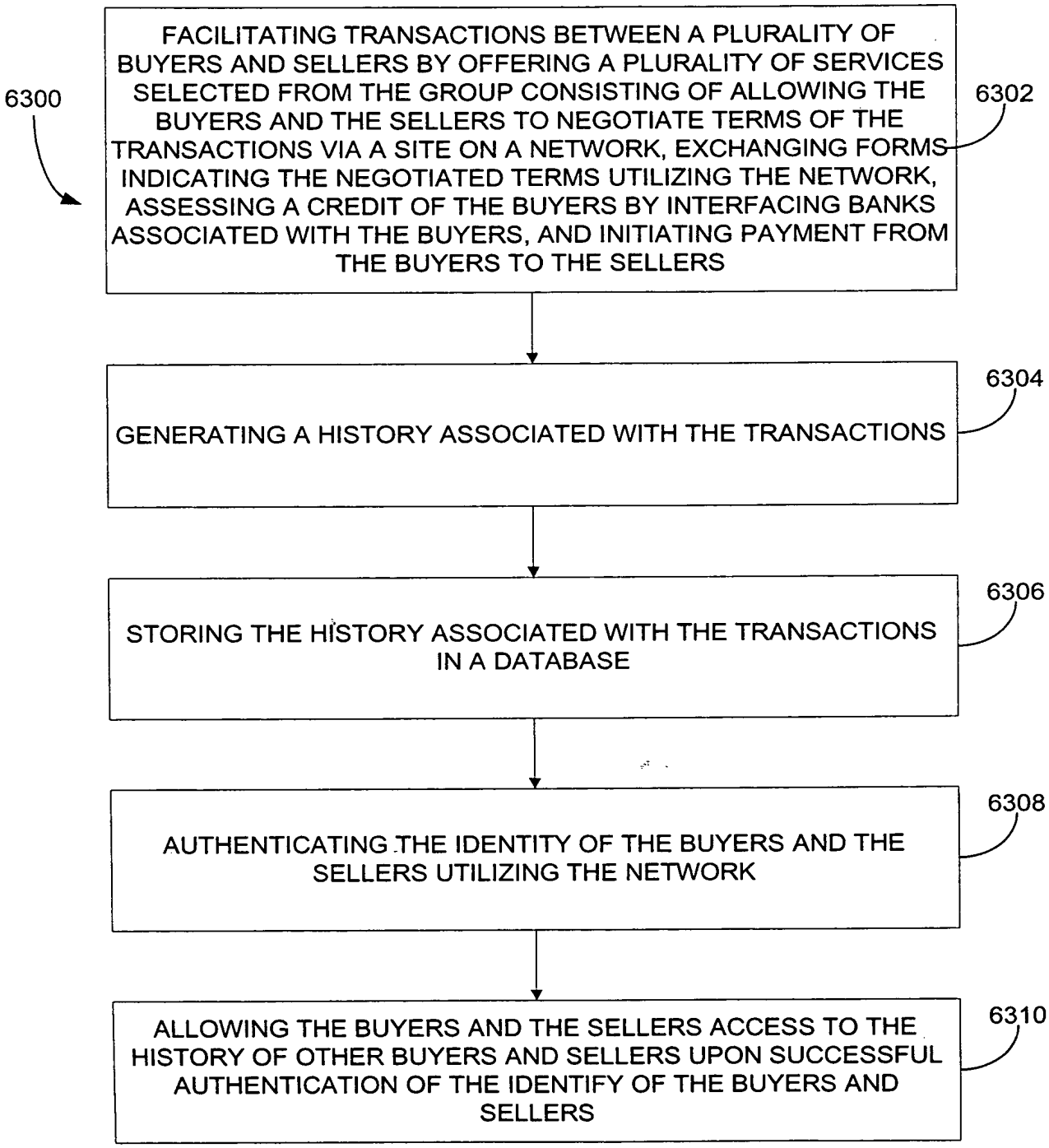

6300
FACILITATING TRANSACTIONS BETWEEN A PLURALITY OF BUYERS AND SELLERS BY OFFERING A PLURALITY OF SERVICES SELECTED FROM THE GROUP CONSISTING OF ALLOWING THE BUYERS AND THE SELLERS TO NEGOTIATE TERMS OF THE TRANSACTIONS VIA A SITE ON A NETWORK, EXCHANGING FORMS INDICATING THE NEGOTIATED TERMS UTILIZING THE NETWORK, ASSESSING A CREDIT OF THE BUYERS BY INTERFACING BANKS ASSOCIATED WITH THE BUYERS, AND INITIATING PAYMENT FROM THE BUYERS TO THE SELLERS
6302
GENERATING A HISTORY ASSOCIATED WITH THE TRANSACTIONS
6304
STORING THE HISTORY ASSOCIATED WITH THE TRANSACTIONS IN A DATABASE
6306
AUTHENTICATING THE IDENTITY OF THE BUYERS AND THE SELLERS UTILIZING THE NETWORK
6308
ALLOWING THE BUYERS AND THE SELLERS ACCESS TO THE HISTORY OF OTHER BUYERS AND SELLERS UPON SUCCESSFUL AUTHENTICATION OF THE IDENTIFY OF THE BUYERS AND SELLERS
6310

Figure 63

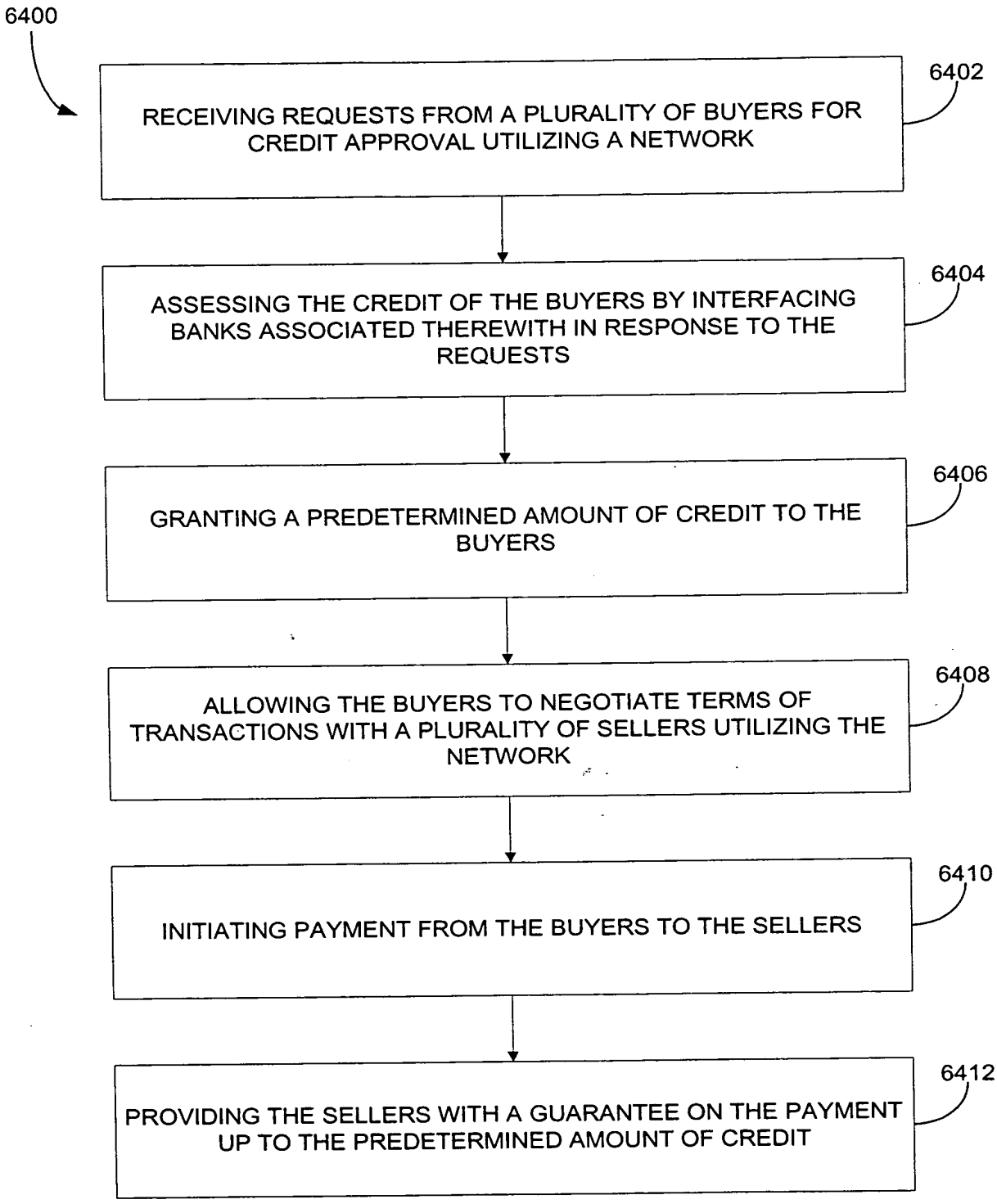

6400
RECEIVING REQUESTS FROM A PLURALITY OF BUYERS FOR CREDIT APPROVAL UTILIZING A NETWORK
6402
ASSESSING THE CREDIT OF THE BUYERS BY INTERFACING BANKS ASSOCIATED THEREWITH IN RESPONSE TO THE REQUESTS
6404
GRANTING A PREDETERMINED AMOUNT OF CREDIT TO THE BUYERS
6406
ALLOWING THE BUYERS TO NEGOTIATE TERMS OF TRANSACTIONS WITH A PLURALITY OF SELLERS UTILIZING THE NETWORK
6408
INITIATING PAYMENT FROM THE BUYERS TO THE SELLERS
6410
PROVIDING THE SELLERS WITH A GUARANTEE ON THE PAYMENT UP TO THE PREDETERMINED AMOUNT OF CREDIT
6412

Figure 64

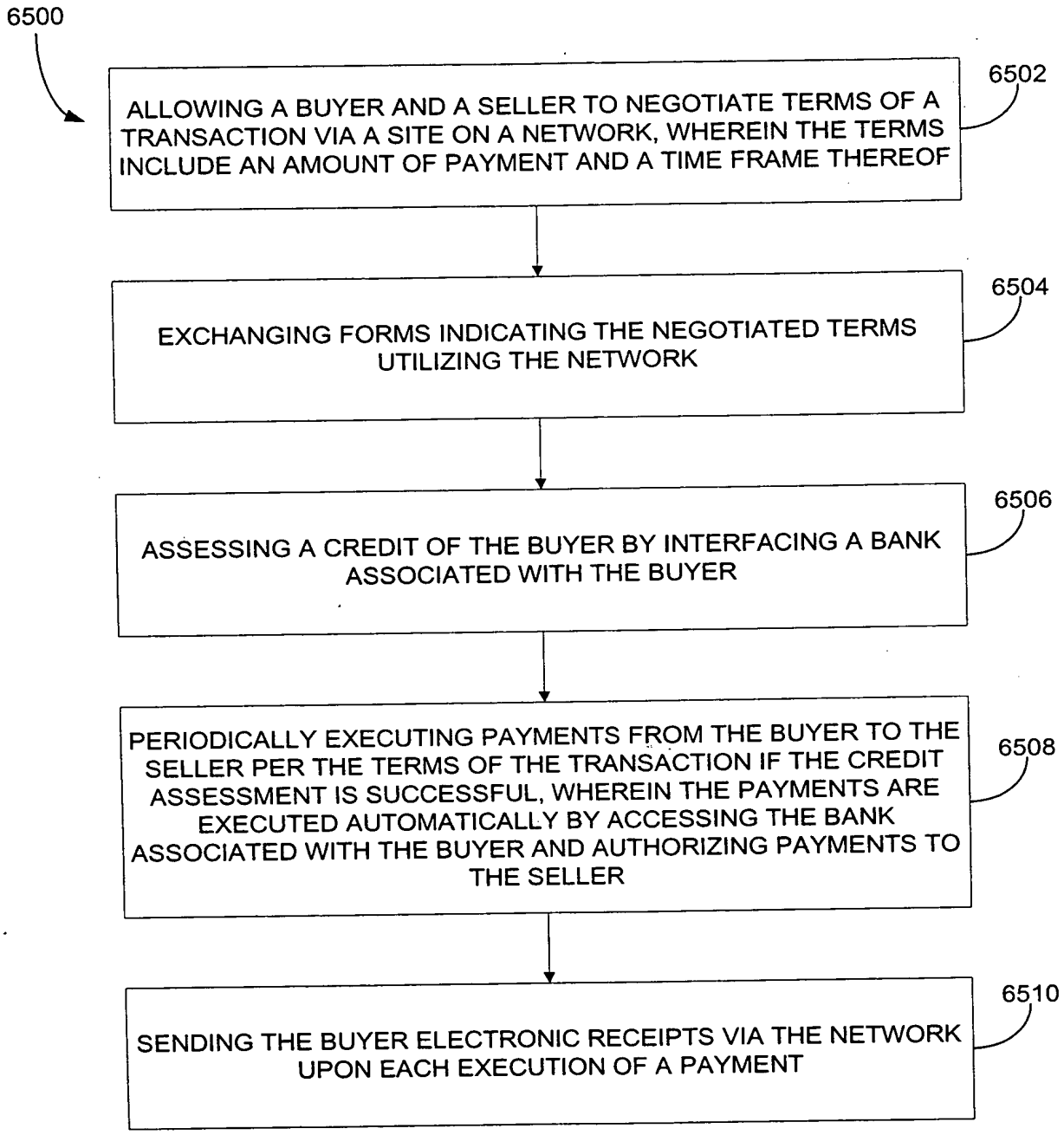

6500
ALLOWING A BUYER AND A SELLER TO NEGOTIATE TERMS OF A TRANSACTION VIA A SITE ON A NETWORK, WHEREIN THE TERMS INCLUDE AN AMOUNT OF PAYMENT AND A TIME FRAME THEREOF
6502
EXCHANGING FORMS INDICATING THE NEGOTIATED TERMS UTILIZING THE NETWORK
6504
ASSESSING A CREDIT OF THE BUYER BY INTERFACING A BANK ASSOCIATED WITH THE BUYER
6506
PERIODICALLY EXECUTING PAYMENTS FROM THE BUYER TO THE SELLER PER THE TERMS OF THE TRANSACTION IF THE CREDIT ASSESSMENT IS SUCCESSFUL, WHEREIN THE PAYMENTS ARE EXECUTED AUTOMATICALLY BY ACCESSING THE BANK ASSOCIATED WITH THE BUYER AND AUTHORIZING PAYMENTS TO THE SELLER
6508
SENDING THE BUYER ELECTRONIC RECEIPTS VIA THE NETWORK UPON EACH EXECUTION OF A PAYMENT
6510

Figure 65

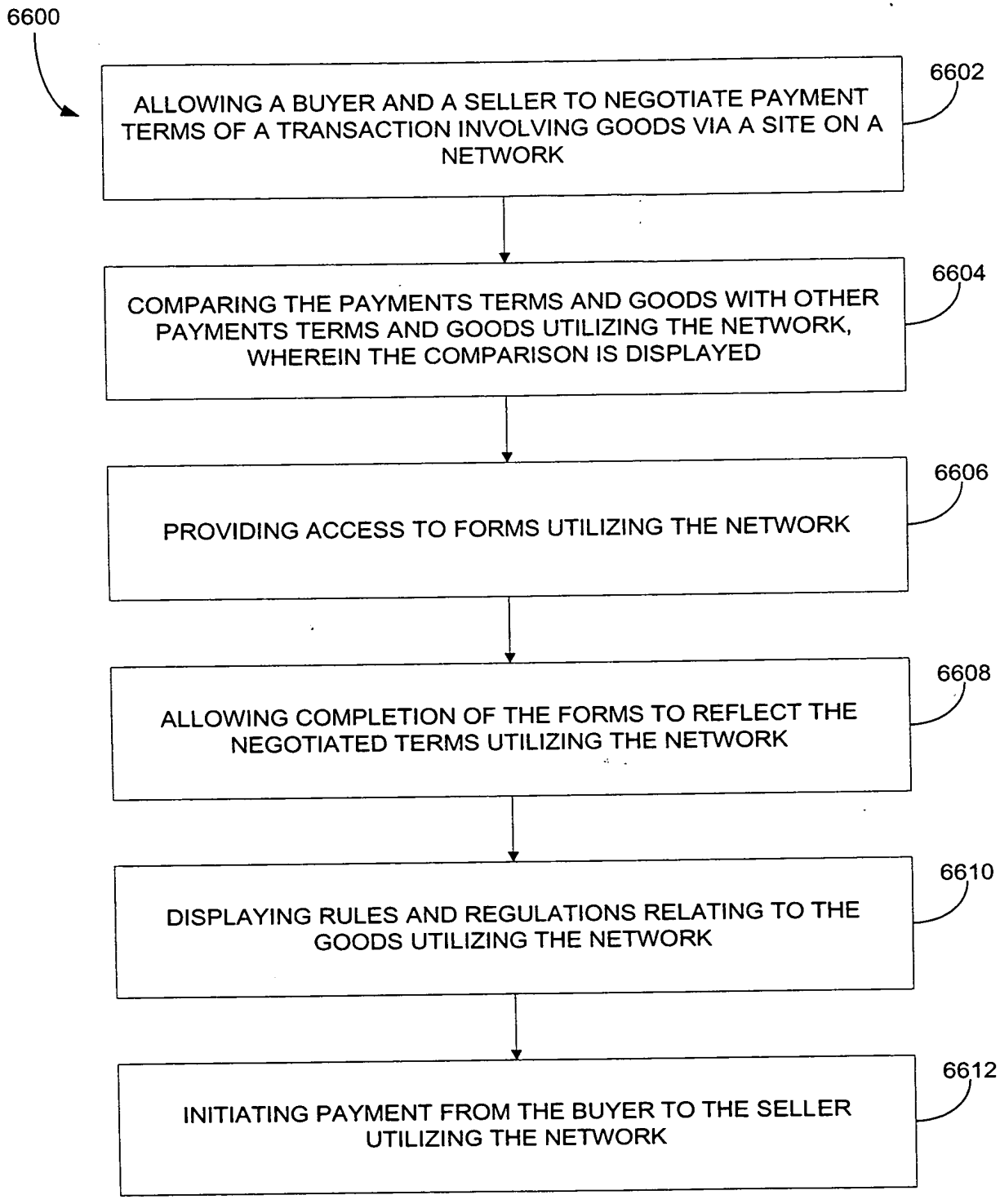

6600
ALLOWING A BUYER AND A SELLER TO NEGOTIATE PAYMENT TERMS OF A TRANSACTION INVOLVING GOODS VIA A SITE ON A NETWORK
6602
COMPARING THE PAYMENTS TERMS AND GOODS WITH OTHER PAYMENTS TERMS AND GOODS UTILIZING THE NETWORK, WHEREIN THE COMPARISON IS DISPLAYED
6604
PROVIDING ACCESS TO FORMS UTILIZING THE NETWORK
6606
ALLOWING COMPLETION OF THE FORMS TO REFLECT THE NEGOTIATED TERMS UTILIZING THE NETWORK
6608
DISPLAYING RULES AND REGULATIONS RELATING TO THE GOODS UTILIZING THE NETWORK
6610
INITIATING PAYMENT FROM THE BUYER TO THE SELLER UTILIZING THE NETWORK
6612

Figure 66

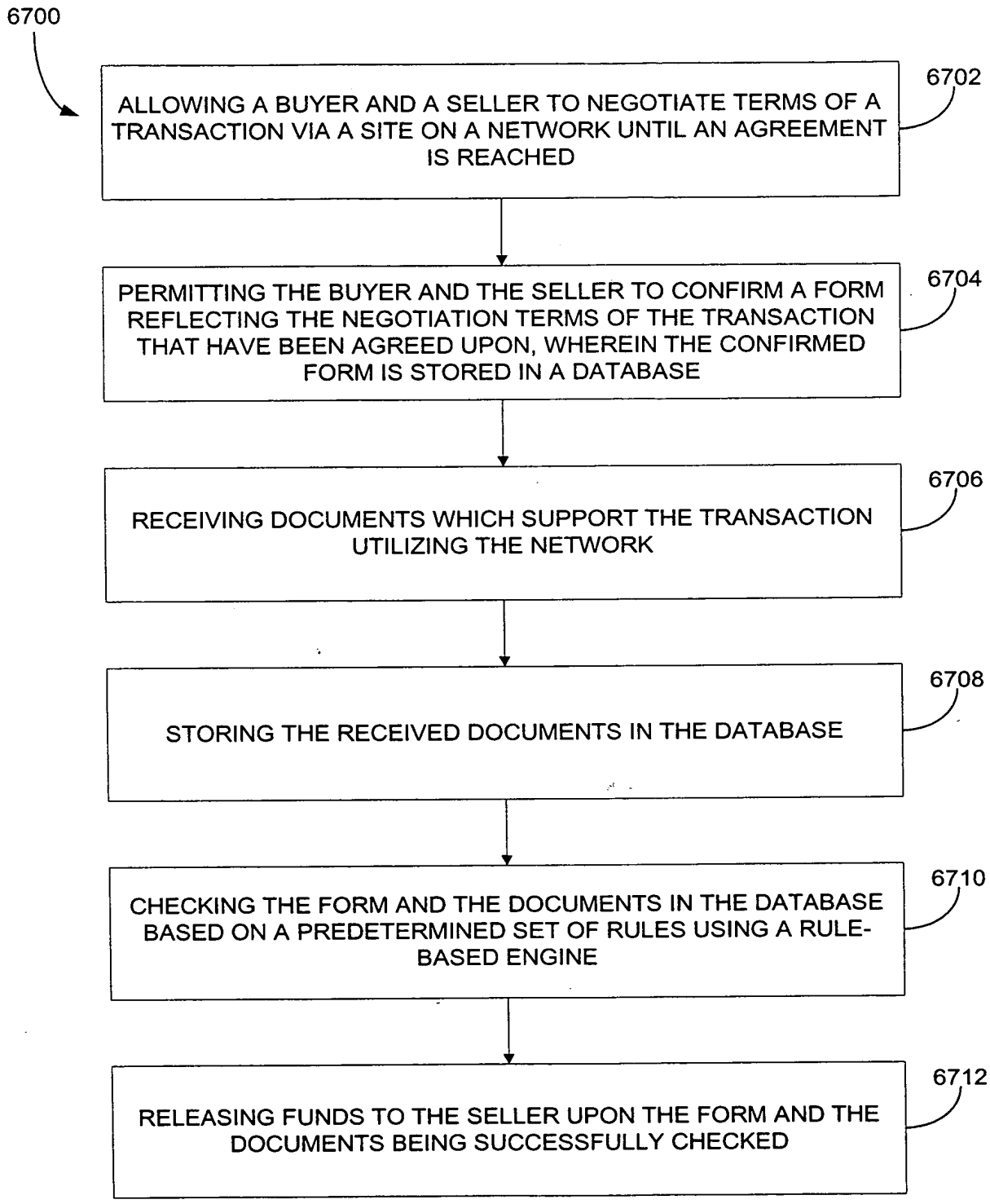

6700
ALLOWING A BUYER AND A SELLER TO NEGOTIATE TERMS OF A TRANSACTION VIA A SITE ON A NETWORK UNTIL AN AGREEMENT IS REACHED
6702
PERMITTING THE BUYER AND THE SELLER TO CONFIRM A FORM REFLECTING THE NEGOTIATION TERMS OF THE TRANSACTION THAT HAVE BEEN AGREED UPON, WHEREIN THE CONFIRMED FORM IS STORED IN A DATABASE
6704
RECEIVING DOCUMENTS WHICH SUPPORT THE TRANSACTION UTILIZING THE NETWORK
6706
STORING THE RECEIVED DOCUMENTS IN THE DATABASE
6708
CHECKING THE FORM AND THE DOCUMENTS IN THE DATABASE BASED ON A PREDETERMINED SET OF RULES USING A RULE-BASED ENGINE
6710
RELEASING FUNDS TO THE SELLER UPON THE FORM AND THE DOCUMENTS BEING SUCCESSFULLY CHECKED
6712

Figure 67

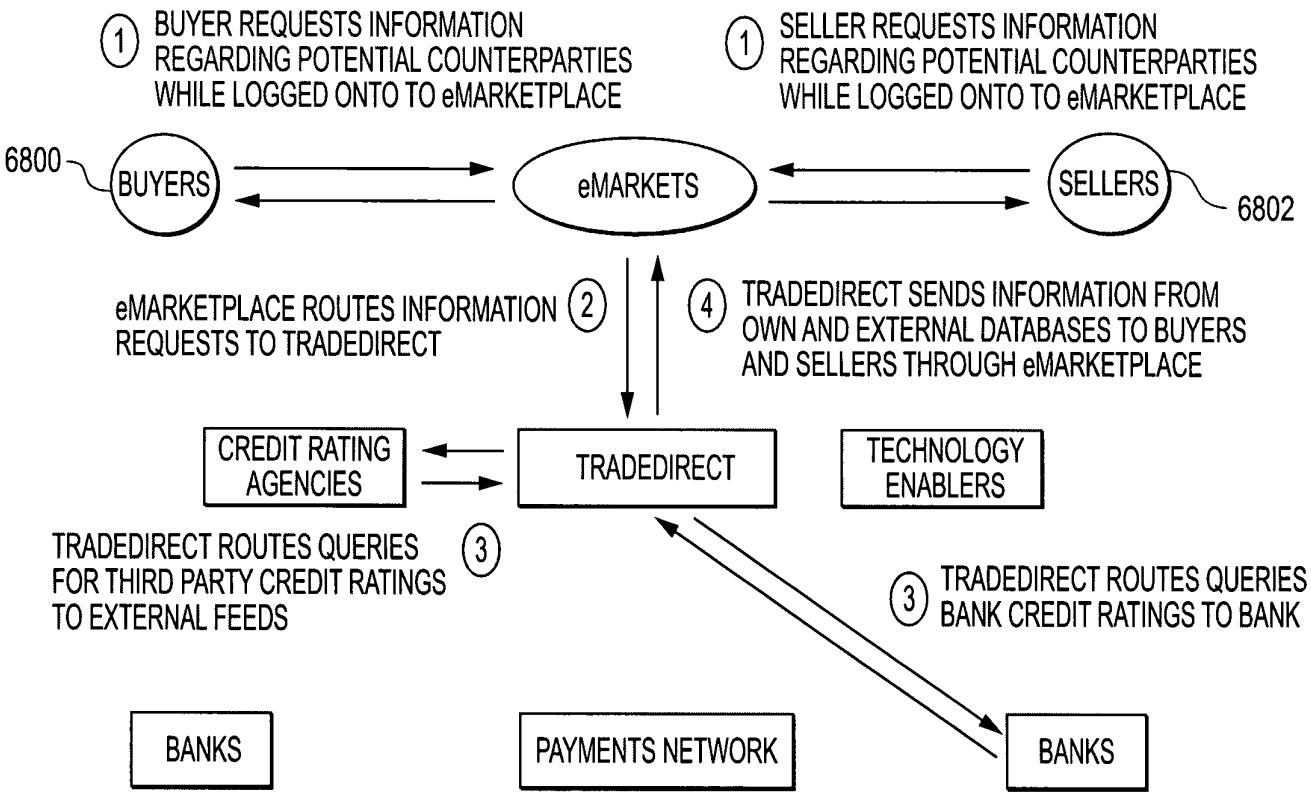


Figure 68

Replacement Sheet

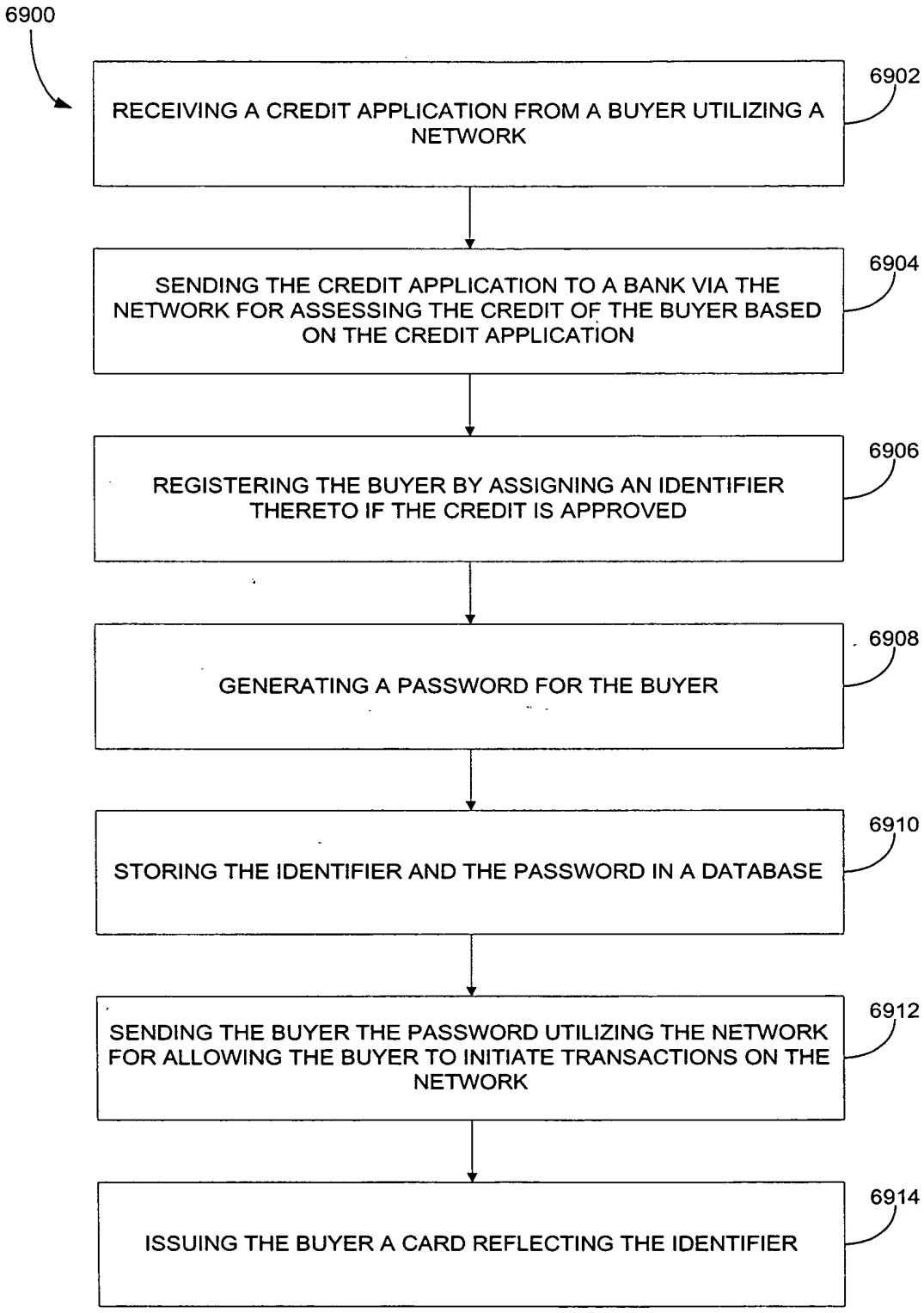

6900
RECEIVING A CREDIT APPLICATION FROM A BUYER UTILIZING A NETWORK
6902
SENDING THE CREDIT APPLICATION TO A BANK VIA THE NETWORK FOR ASSESSING THE CREDIT OF THE BUYER BASED ON THE CREDIT APPLICATION
6904
REGISTERING THE BUYER BY ASSIGNING AN IDENTIFIER THERETO IF THE CREDIT IS APPROVED
6906
GENERATING A PASSWORD FOR THE BUYER
6908
STORING THE IDENTIFIER AND THE PASSWORD IN A DATABASE
6910
SENDING THE BUYER THE PASSWORD UTILIZING THE NETWORK FOR ALLOWING THE BUYER TO INITIATE TRANSACTIONS ON THE NETWORK
6912
ISSUING THE BUYER A CARD REFLECTING THE IDENTIFIER
6914

Figure 69

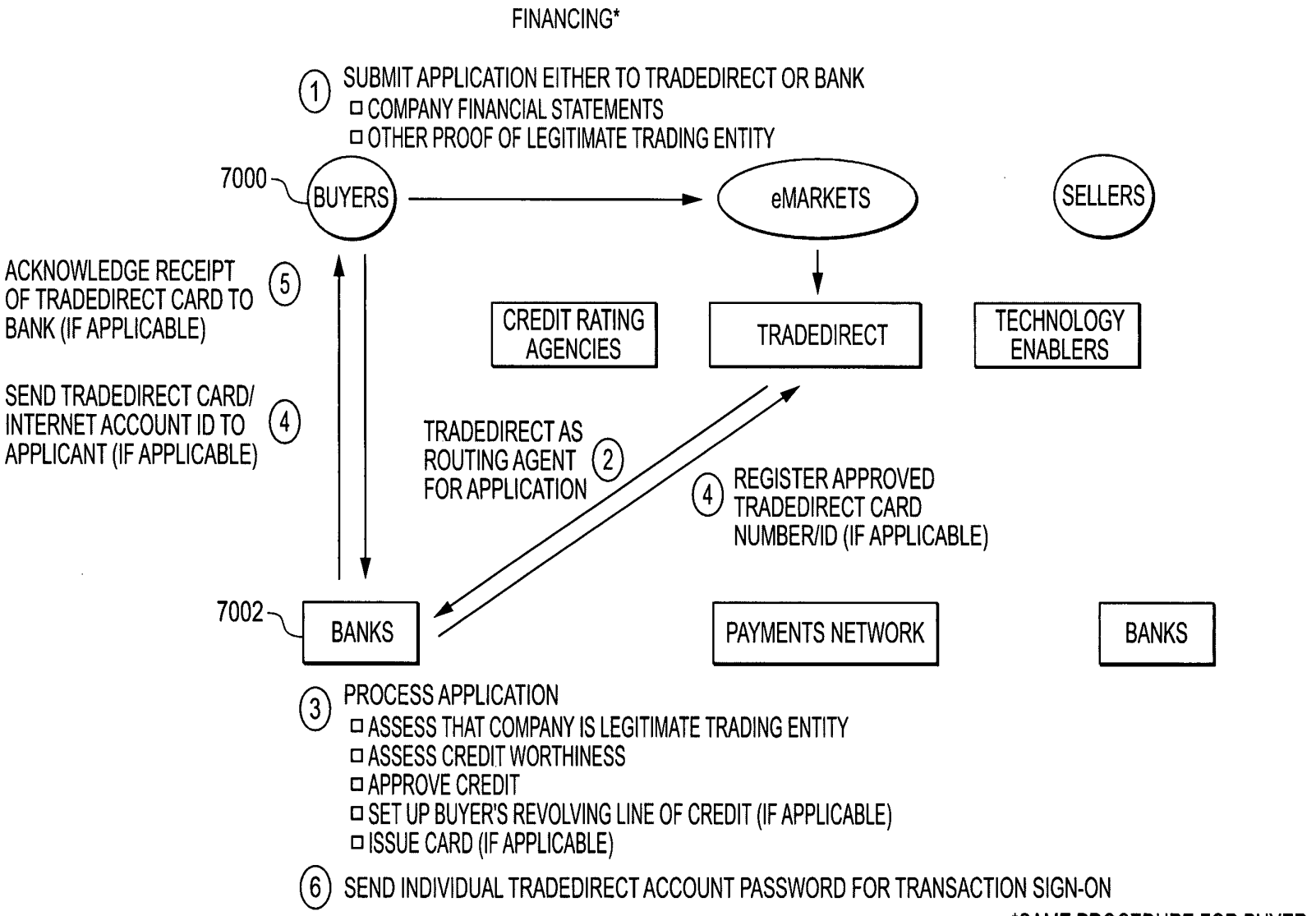


Figure 70

*SAME PROCEDURE FOR BUYER OR SELLER FINANCING

Replacement Sheet

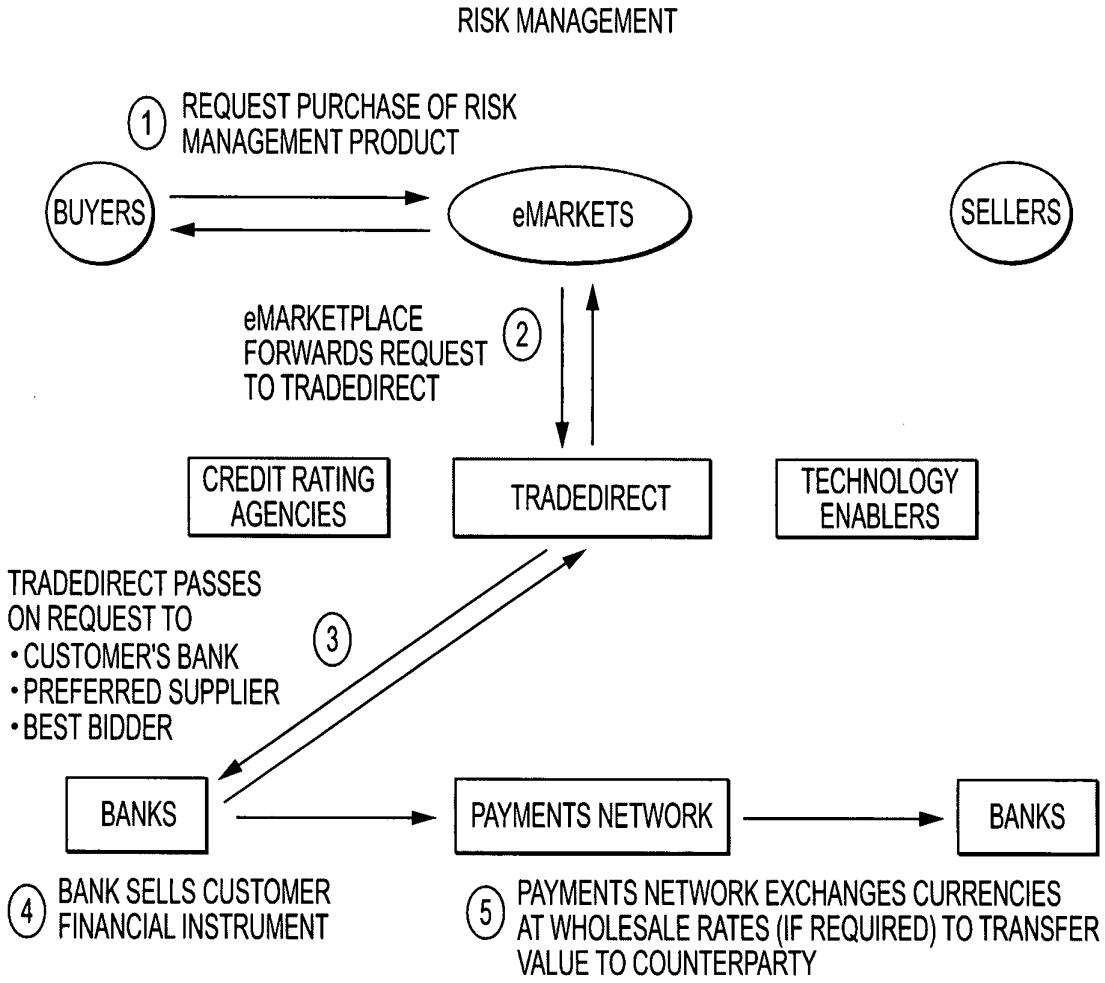


Figure 71

Replacement Sheet

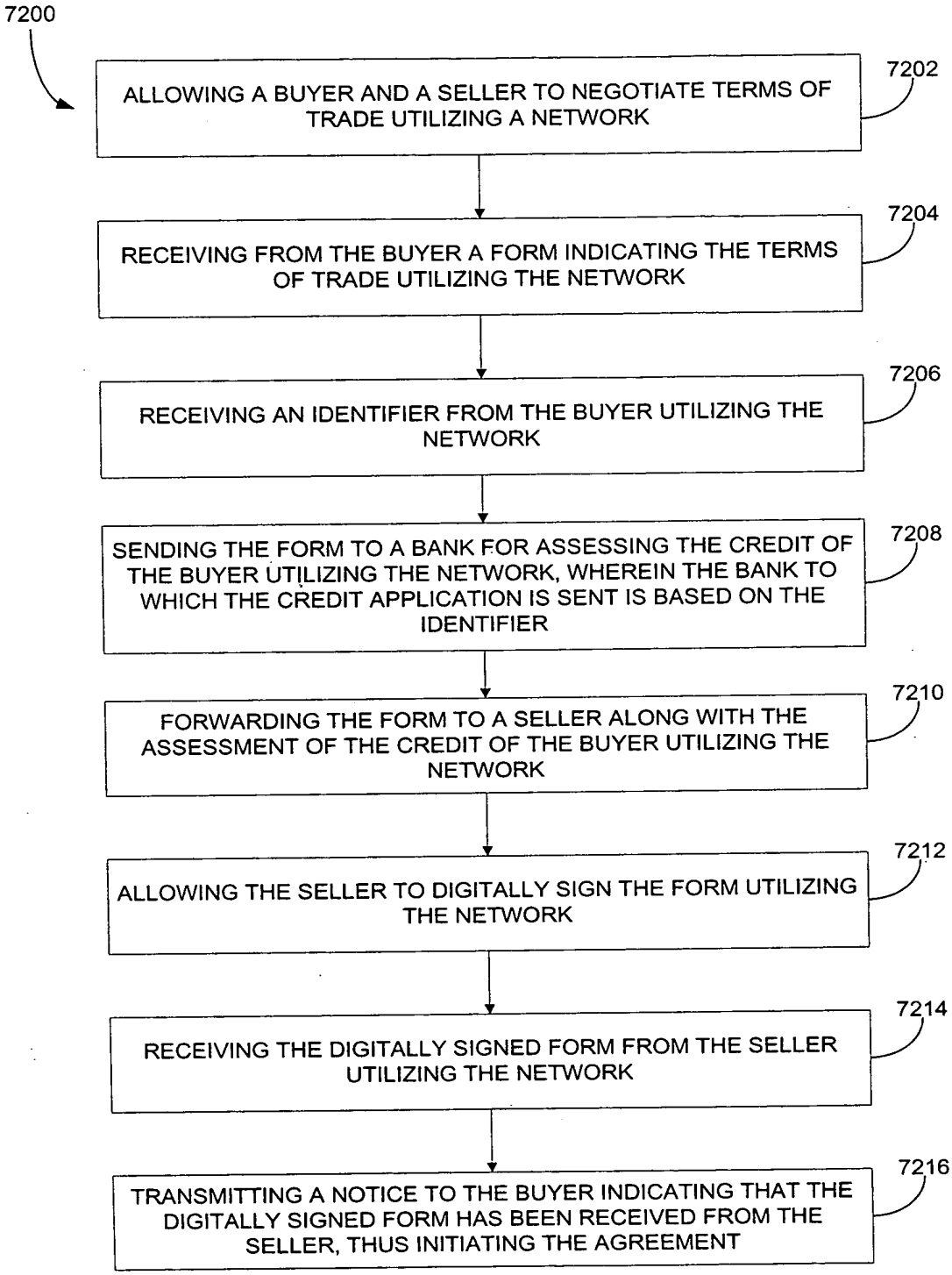

7200
ALLOWING A BUYER AND A SELLER TO NEGOTIATE TERMS OF TRADE UTILIZING A NETWORK
7202
RECEIVING FROM THE BUYER A FORM INDICATING THE TERMS OF TRADE UTILIZING THE NETWORK
7204
RECEIVING AN IDENTIFIER FROM THE BUYER UTILIZING THE NETWORK
7206
SENDING THE FORM TO A BANK FOR ASSESSING THE CREDIT OF THE BUYER UTILIZING THE NETWORK, WHEREIN THE BANK TO WHICH THE CREDIT APPLICATION IS SENT IS BASED ON THE IDENTIFIER
7208
FORWARDING THE FORM TO A SELLER ALONG WITH THE ASSESSMENT OF THE CREDIT OF THE BUYER UTILIZING THE NETWORK
7210
ALLOWING THE SELLER TO DIGITALLY SIGN THE FORM UTILIZING THE NETWORK
7212
RECEIVING THE DIGITALLY SIGNED FORM FROM THE SELLER UTILIZING THE NETWORK
7214
TRANSMITTING A NOTICE TO THE BUYER INDICATING THAT THE DIGITALLY SIGNED FORM HAS BEEN RECEIVED FROM THE SELLER, THUS INITIATING THE AGREEMENT
7216

Figure 72

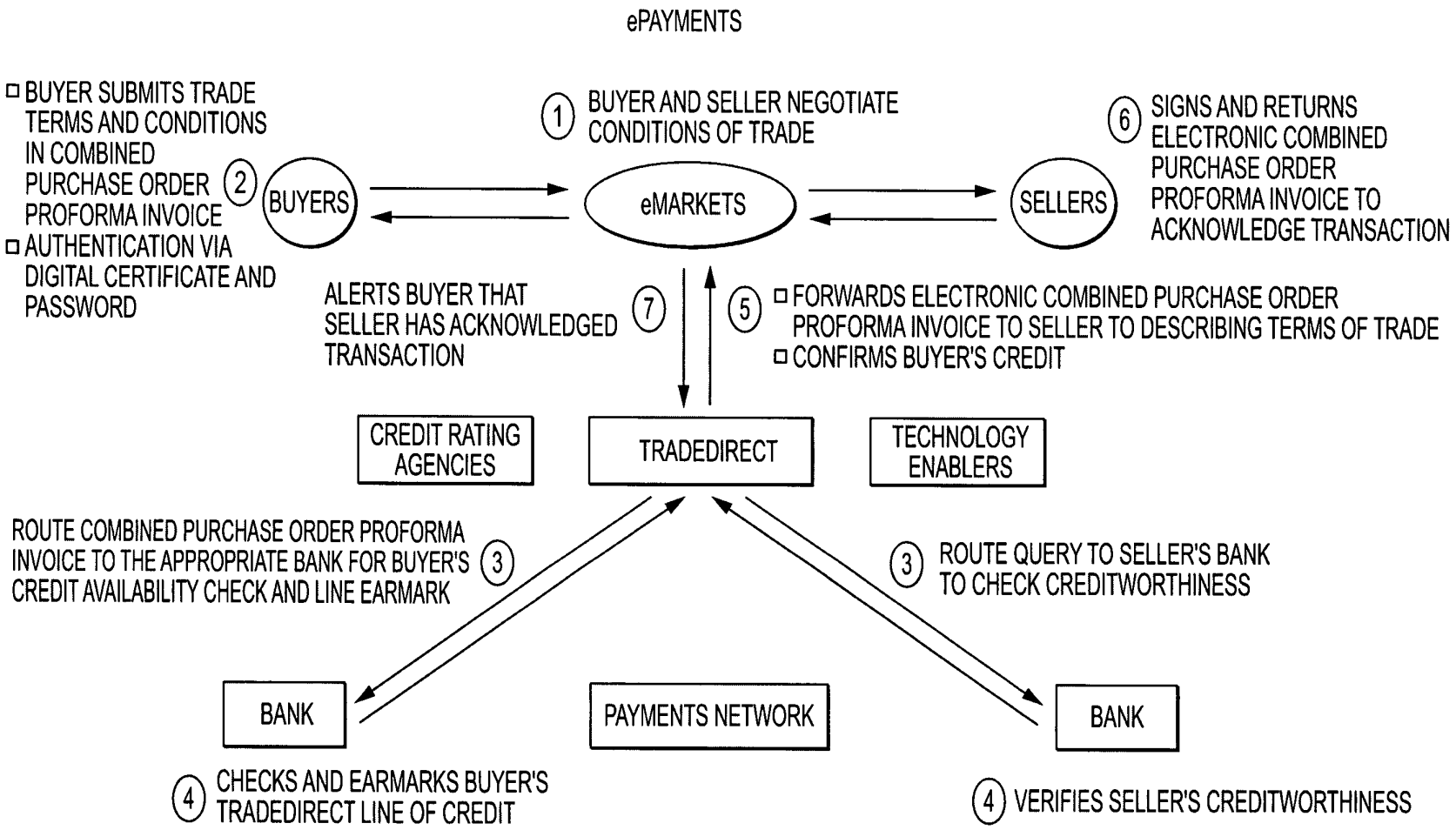


Figure 73

Replacement Sheet

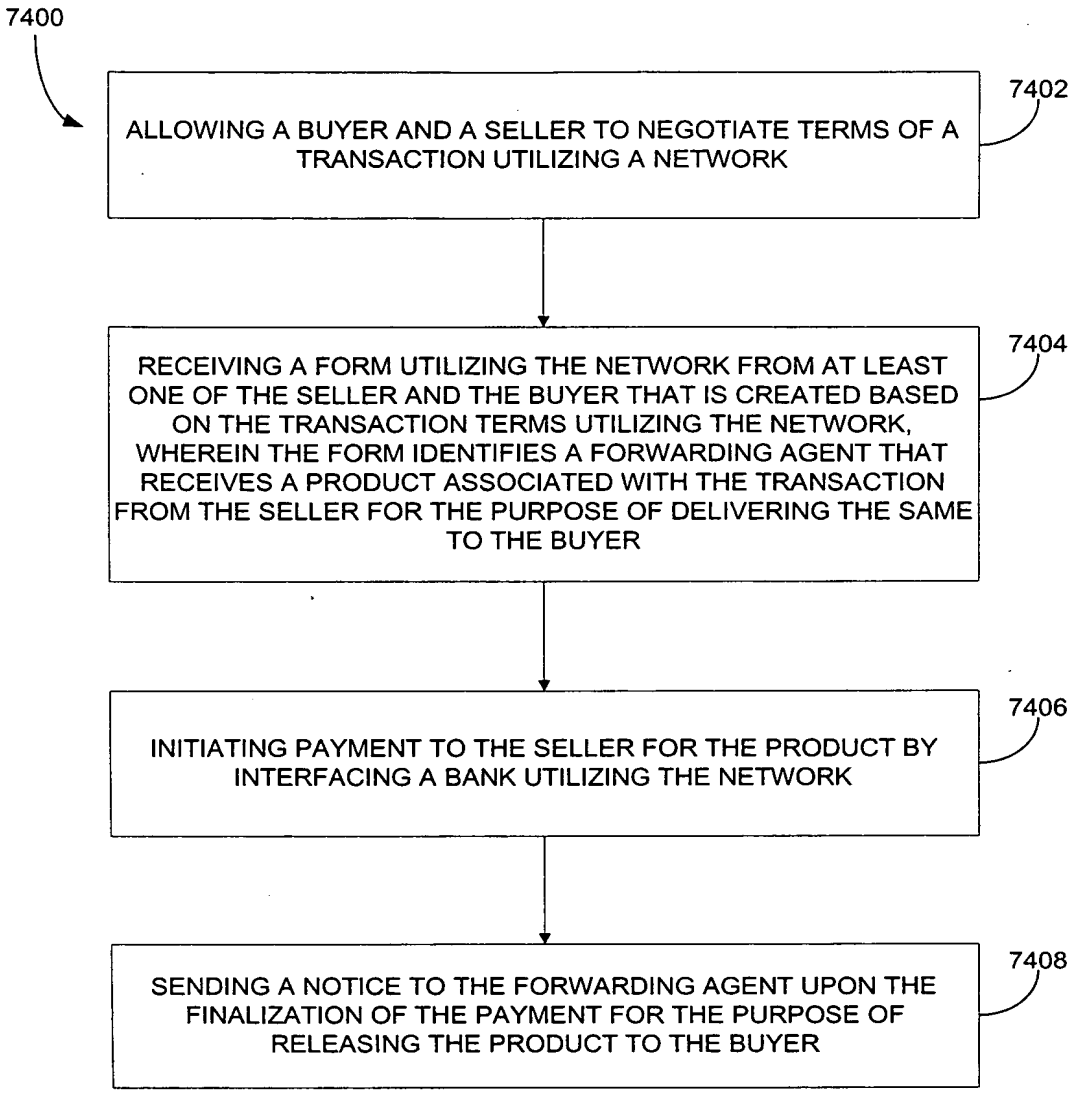

7400
ALLOWING A BUYER AND A SELLER TO NEGOTIATE TERMS OF A TRANSACTION UTILIZING A NETWORK
7402
RECEIVING A FORM UTILIZING THE NETWORK FROM AT LEAST ONE OF THE SELLER AND THE BUYER THAT IS CREATED BASED ON THE TRANSACTION TERMS UTILIZING THE NETWORK, WHEREIN THE FORM IDENTIFIES A FORWARDING AGENT THAT RECEIVES A PRODUCT ASSOCIATED WITH THE TRANSACTION FROM THE SELLER FOR THE PURPOSE OF DELIVERING THE SAME TO THE BUYER
7404
INITIATING PAYMENT TO THE SELLER FOR THE PRODUCT BY INTERFACING A BANK UTILIZING THE NETWORK
7406
SENDING A NOTICE TO THE FORWARDING AGENT UPON THE FINALIZATION OF THE PAYMENT FOR THE PURPOSE OF RELEASING THE PRODUCT TO THE BUYER
7408

Figure 74

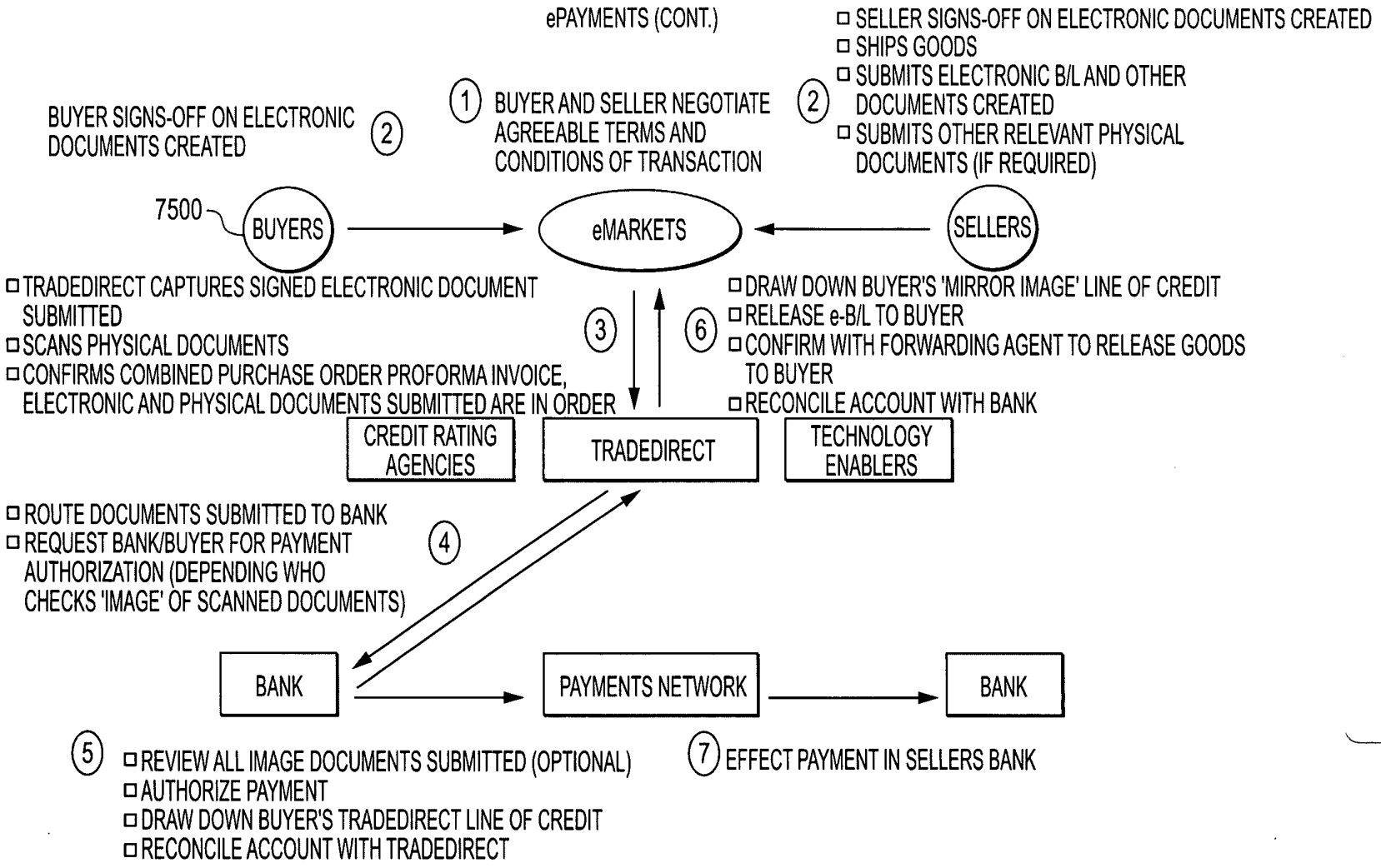


Figure 75

Replacement Sheet

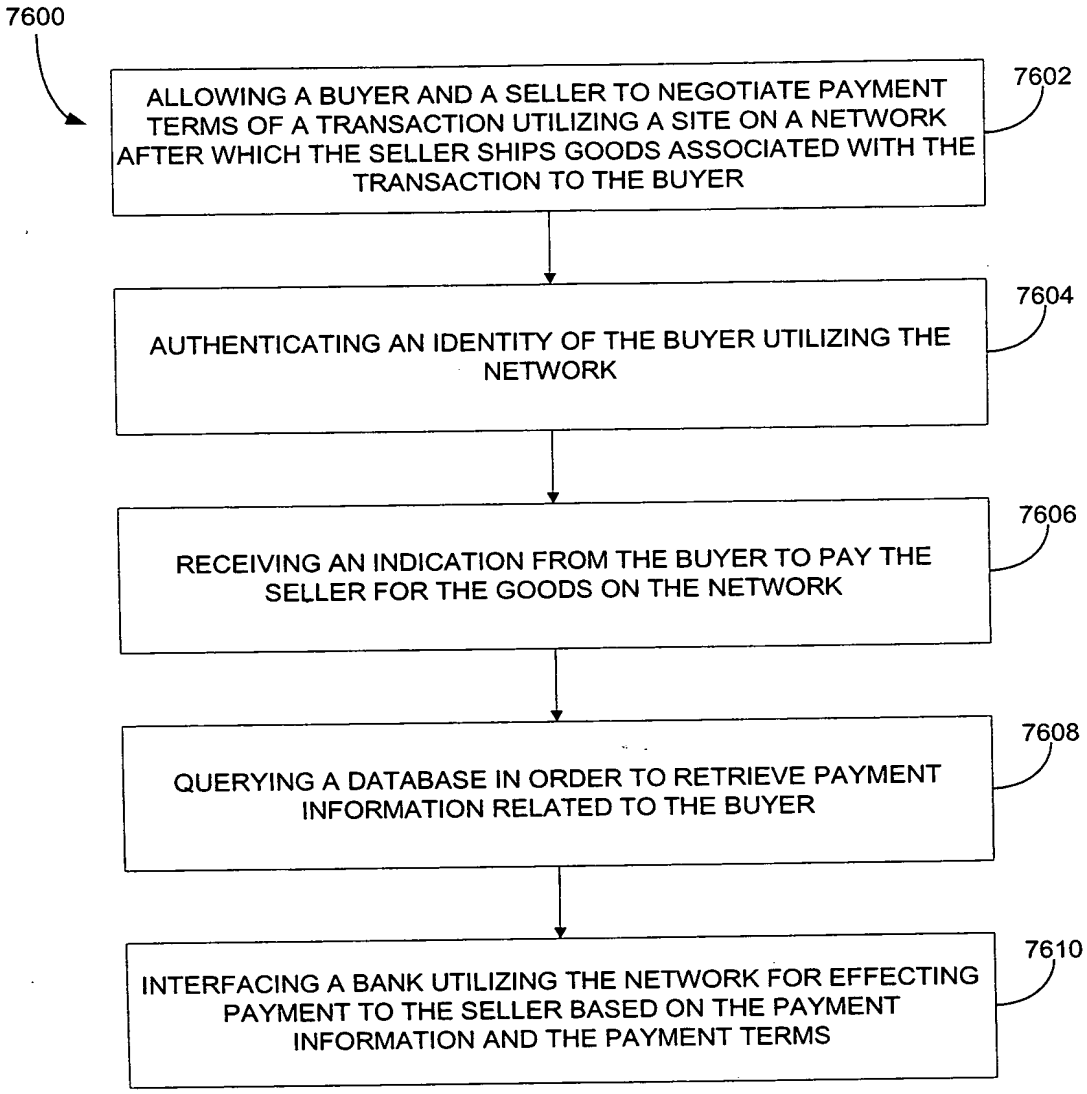

7600
ALLOWING A BUYER AND A SELLER TO NEGOTIATE PAYMENT TERMS OF A TRANSACTION UTILIZING A SITE ON A NETWORK AFTER WHICH THE SELLER SHIPS GOODS ASSOCIATED WITH THE TRANSACTION TO THE BUYER
7602
AUTHENTICATING AN IDENTITY OF THE BUYER UTILIZING THE NETWORK
7604
RECEIVING AN INDICATION FROM THE BUYER TO PAY THE SELLER FOR THE GOODS ON THE NETWORK
7606
QUERYING A DATABASE IN ORDER TO RETRIEVE PAYMENT INFORMATION RELATED TO THE BUYER
7608
INTERFACING A BANK UTILIZING THE NETWORK FOR EFFECTING PAYMENT TO THE SELLER BASED ON THE PAYMENT INFORMATION AND THE PAYMENT TERMS
7610

Figure 76

ePAYMENTS (CONT.)

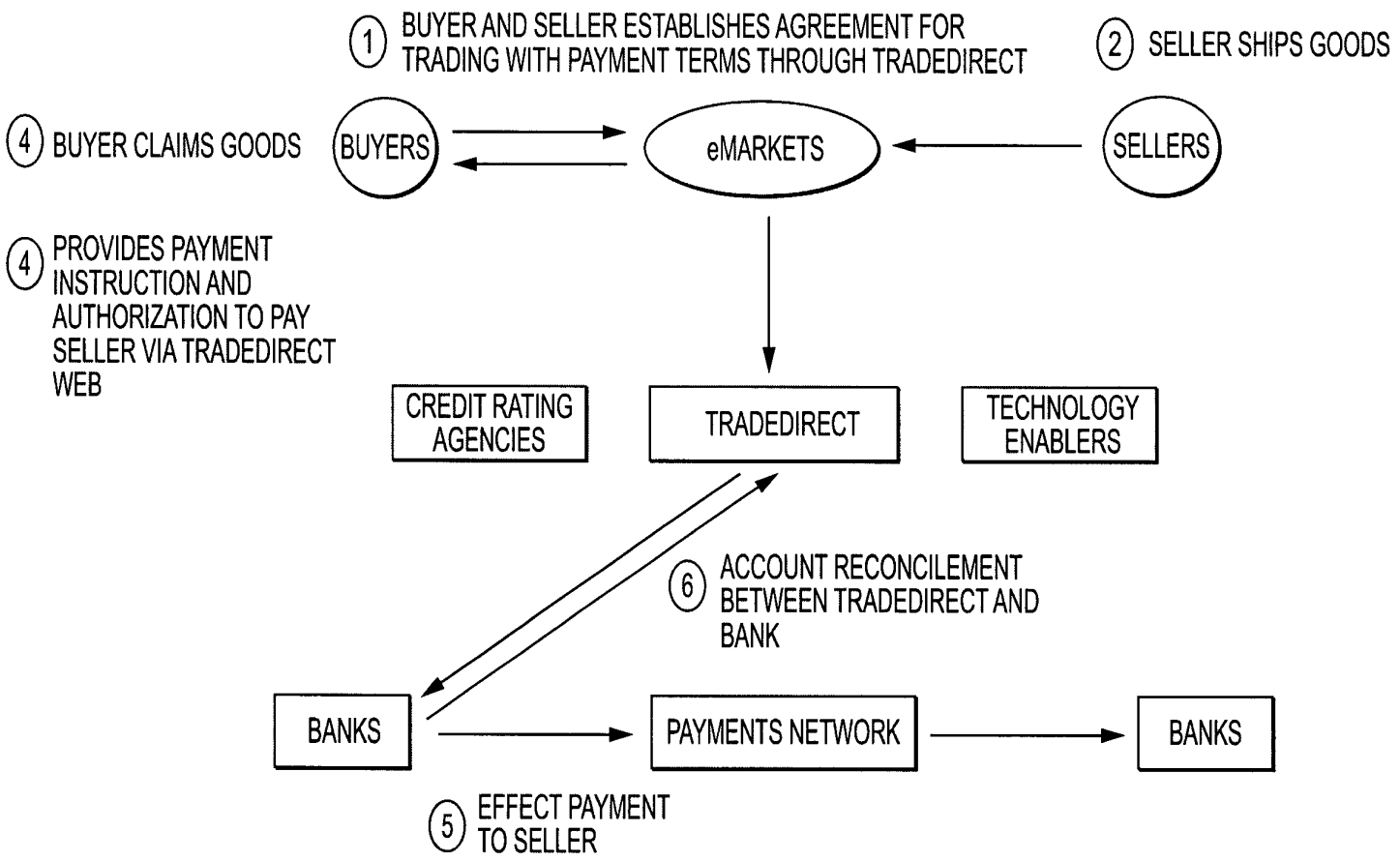


Figure 77

Replacement Sheet

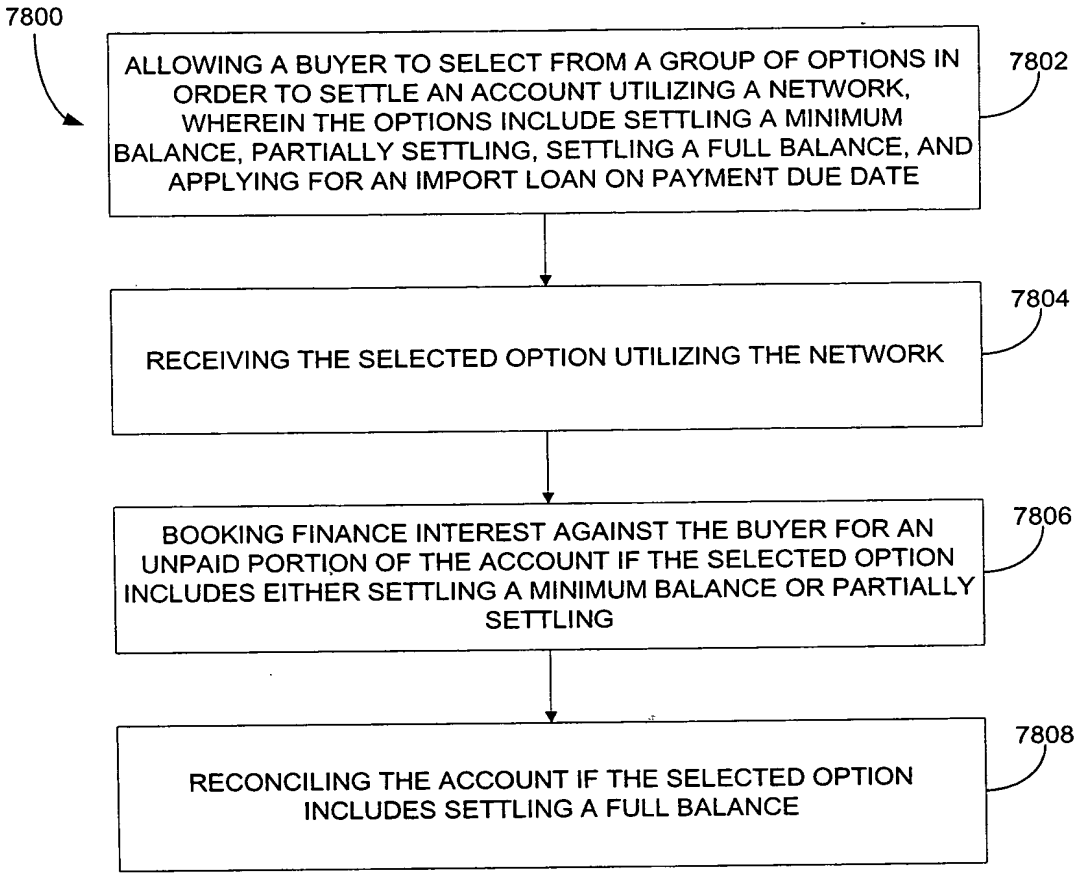

7800
ALLOWING A BUYER TO SELECT FROM A GROUP OF OPTIONS IN ORDER TO SETTLE AN ACCOUNT UTILIZING A NETWORK, WHEREIN THE OPTIONS INCLUDE SETTLING A MINIMUM BALANCE, PARTIALLY SETTLING, SETTLING A FULL BALANCE, AND APPLYING FOR AN IMPORT LOAN ON PAYMENT DUE DATE
7802
RECEIVING THE SELECTED OPTION UTILIZING THE NETWORK
7804
BOOKING FINANCE INTEREST AGAINST THE BUYER FOR AN UNPAID PORTION OF THE ACCOUNT IF THE SELECTED OPTION INCLUDES EITHER SETTLING A MINIMUM BALANCE OR PARTIALLY SETTLING
7806
RECONCILING THE ACCOUNT IF THE SELECTED OPTION INCLUDES SETTLING A FULL BALANCE
7808

Figure 78

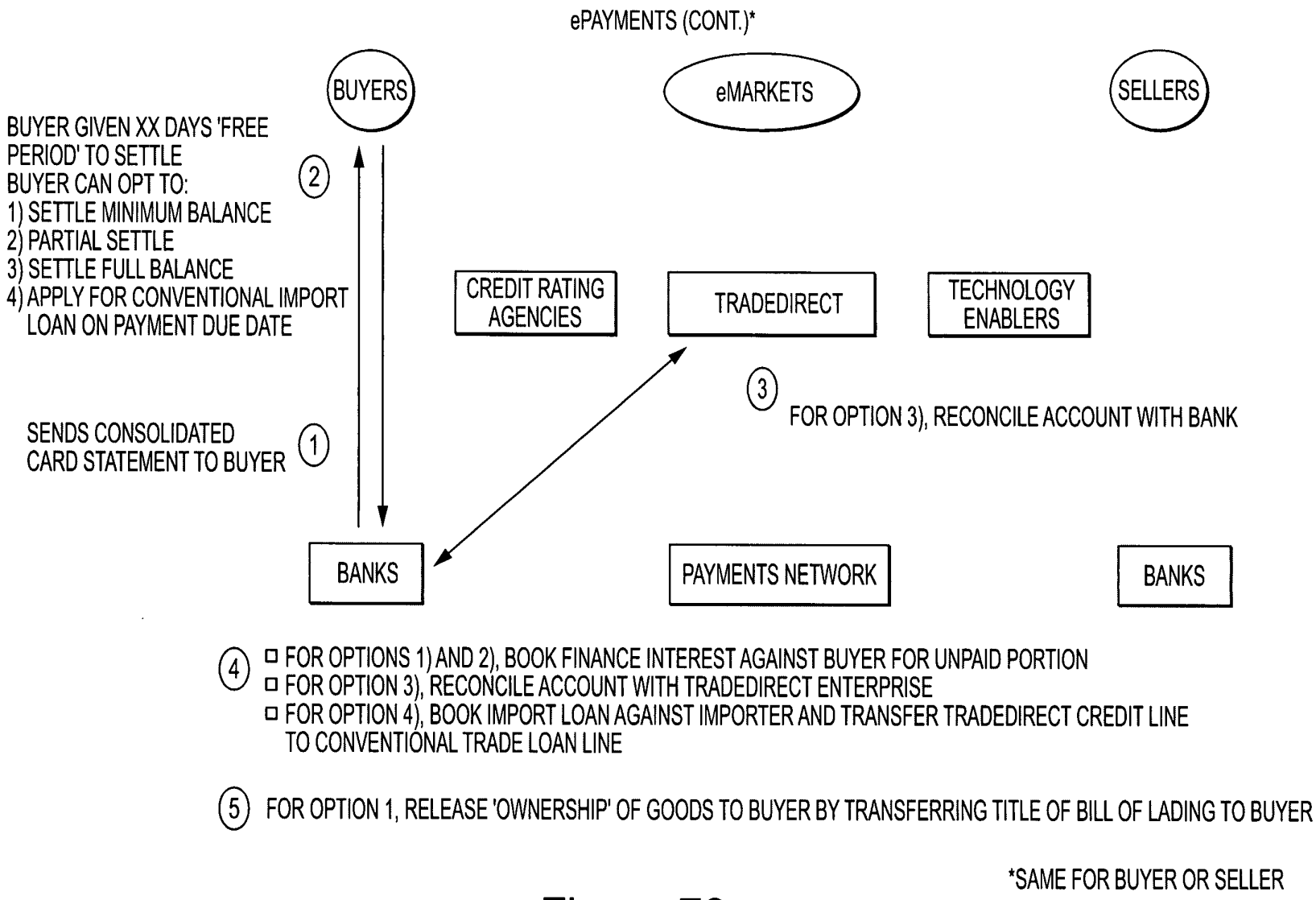


Figure 79

Replacement Sheet

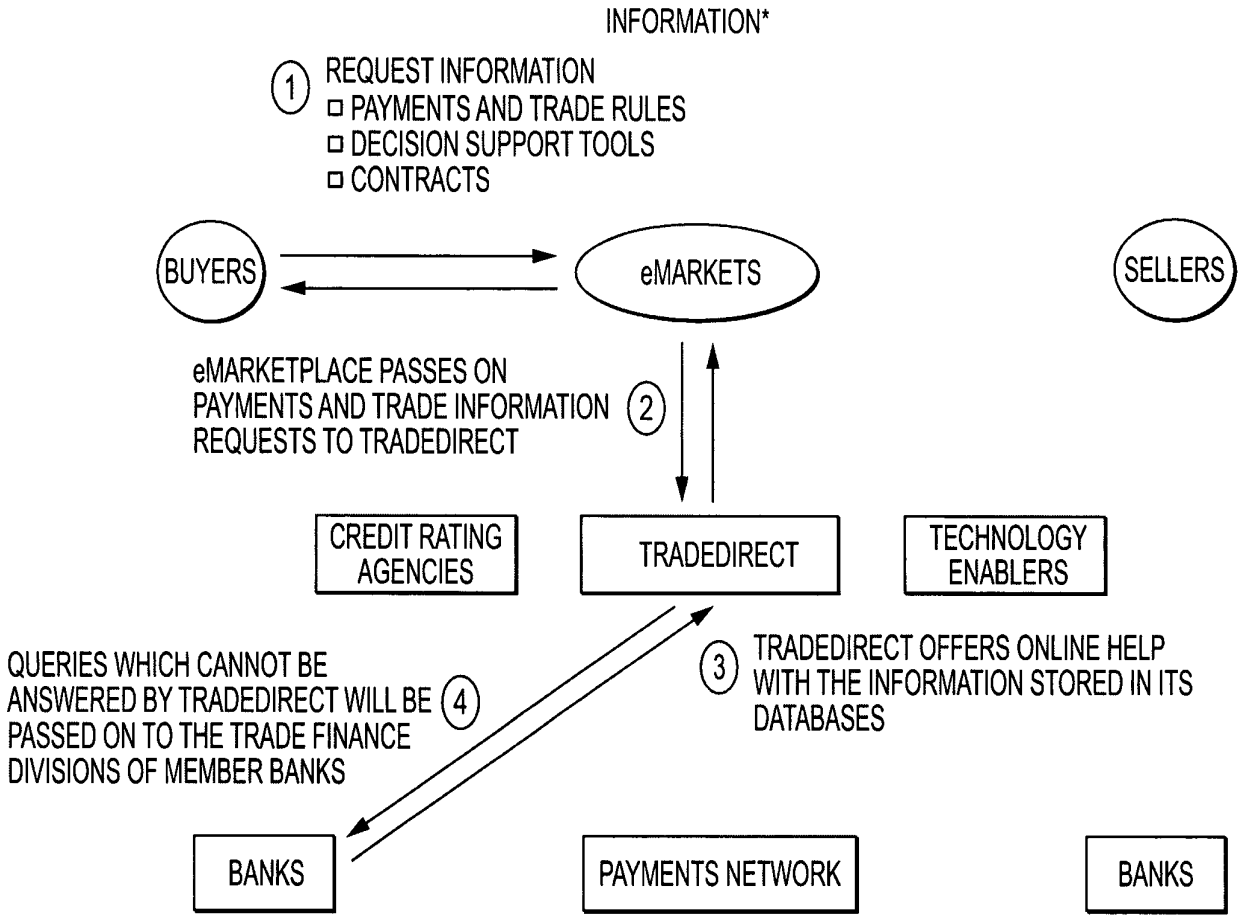


Figure 80

Replacement Sheet

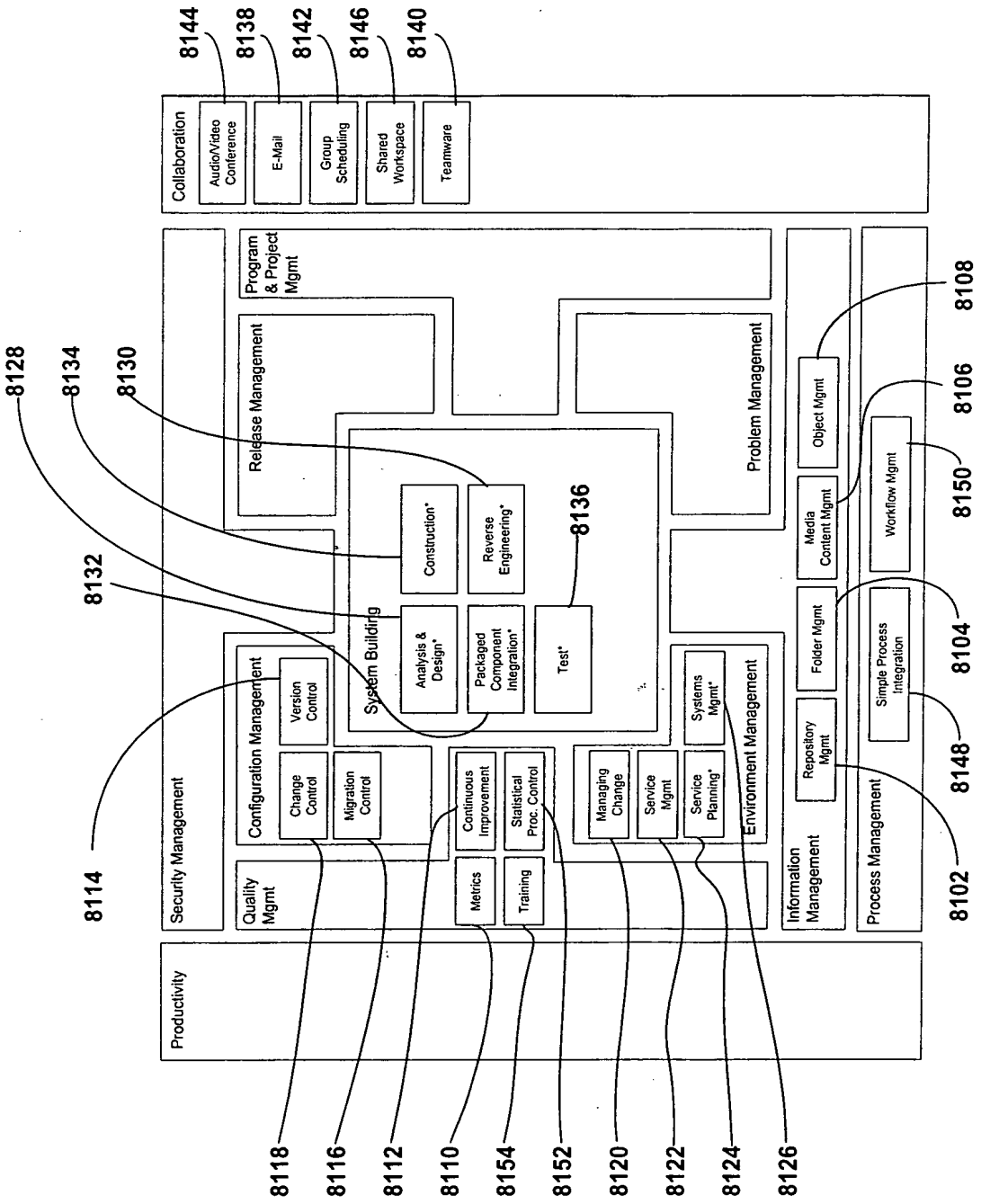

Collaboration
Audio/Video Conference
E-Mail
Group Scheduling
Shared Workspace
Teamware
Program & Project Mgmt
Release Management
Problem Management
Security Management
Configuration Management
Version Control
Change Control
Migration Control
System Building
Construction*
Reverse Engineering*
Analysis & Design*
Packaged Component Integration*
Test*
Quality Mgmt
Metrics
Continuous Improvement
Training
Statistical Proc. Control
Environment Management
Systems Mgmt*
Managing Change
Service Mgmt
Service Planning*
Information Management
Repository Mgmt
Media Content Mgmt
Folder Mgmt
Object Mgmt
Process Management
Simple Process Integration
Workflow Mgmt
Productivity
8144
8138
8142
8146
8140
8128
8134
8130
8132
8136
8108
8106
8150
8104
8148
8102
8114
8118
8116
8112
8110
8154
8152
8120
8122
8124
8126

Figure 81

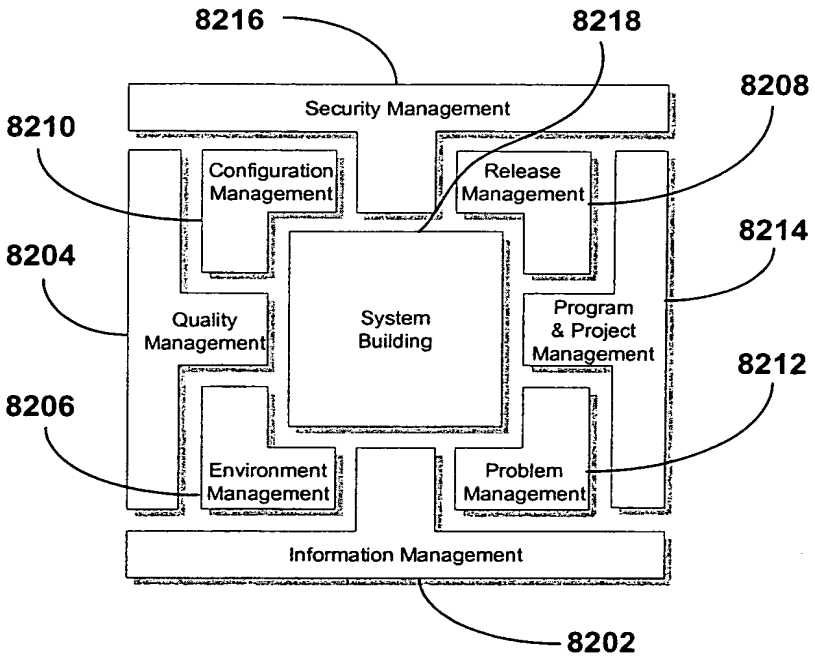

8216
8218
8208
Security Management
8210
Configuration Management
Release Management
8214
8204
Quality Management
System Building
Program & Project Management
8212
8206
Environment Management
Problem Management
Information Management
8202

Figure 82

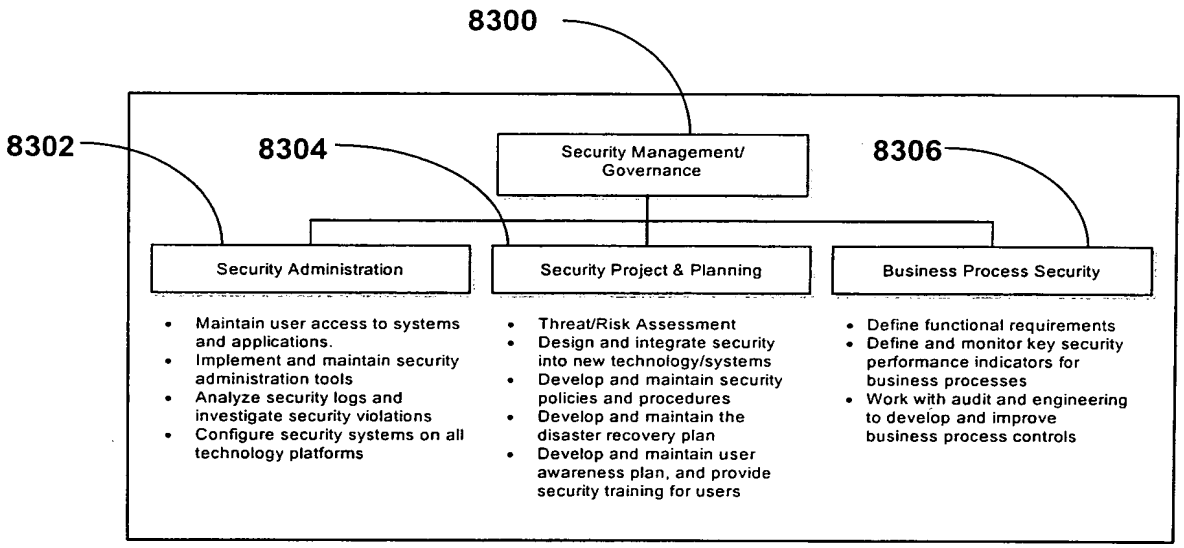

8300
8302
8304
8306
Security Management/ Governance
Security Administration
Security Project & Planning
Business Process Security
• Maintain user access to systems and applications.
• Implement and maintain security administration tools
• Analyze security logs and investigate security violations
• Configure security systems on all technology platforms
• Threat/Risk Assessment
• Design and integrate security into new technology/systems
• Develop and maintain security policies and procedures
• Develop and maintain the disaster recovery plan
• Develop and maintain user awareness plan, and provide security training for users
• Define functional requirements
• Define and monitor key security performance indicators for business processes
• Work with audit and engineering to develop and improve business process controls

Figure 83

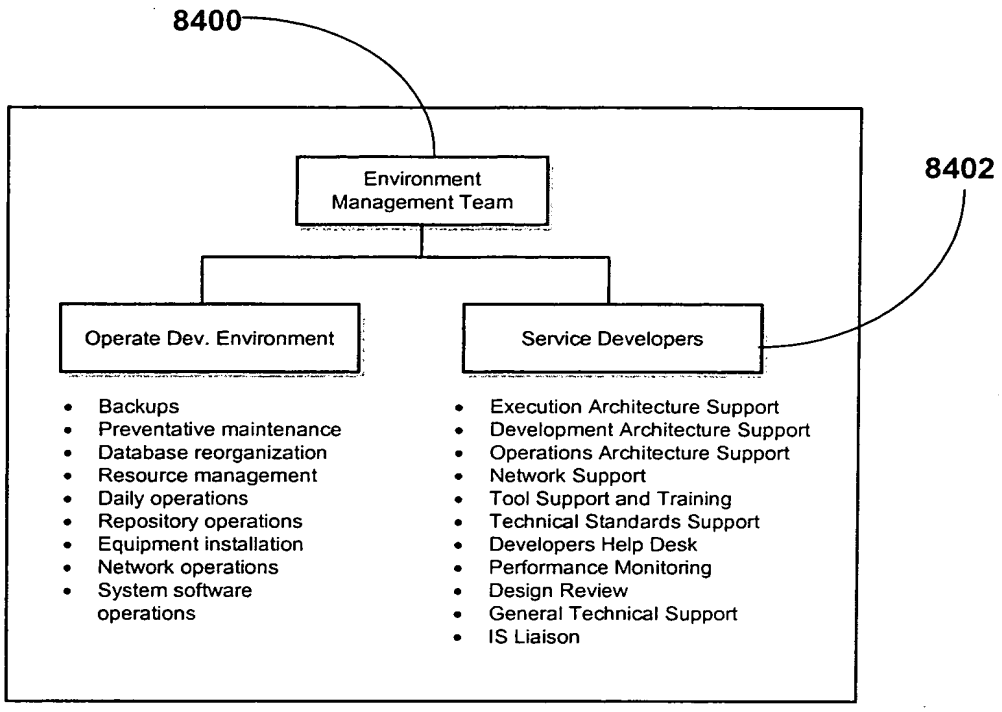

8400
8402
Environment Management Team
Operate Dev. Environment
Service Developers
Backups
Preventative maintenance
Database reorganization
Resource management
Daily operations
Repository operations
Equipment installation
Network operations
System software operations
Execution Architecture Support
Development Architecture Support
Operations Architecture Support
Network Support
Tool Support and Training
Technical Standards Support
Developers Help Desk
Performance Monitoring
Design Review
General Technical Support
IS Liaison

Figure 84

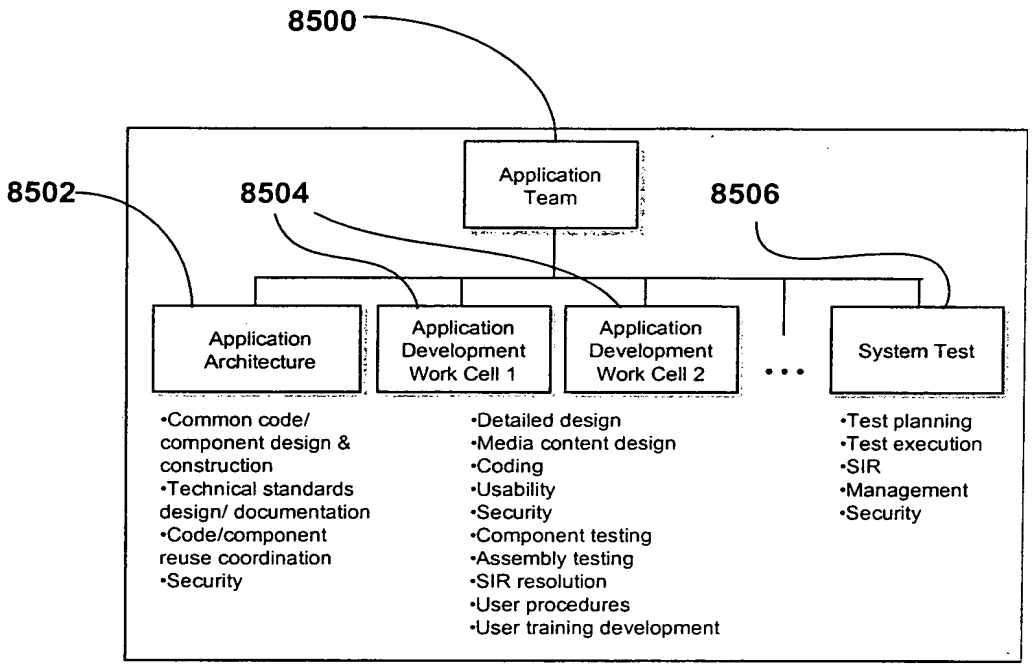

8500
8502
8504
8506
Application Team
Application Architecture
Application Development Work Cell 1
Application Development Work Cell 2
System Test
•Common code/ component design & construction
•Technical standards design/ documentation
•Code/component reuse coordination
•Security
•Detailed design
•Media content design
•Coding
•Usability
•Security
•Component testing
•Assembly testing
•SIR resolution
•User procedures
•User training development
•Test planning
•Test execution
•SIR
•Management
•Security

Figure 85

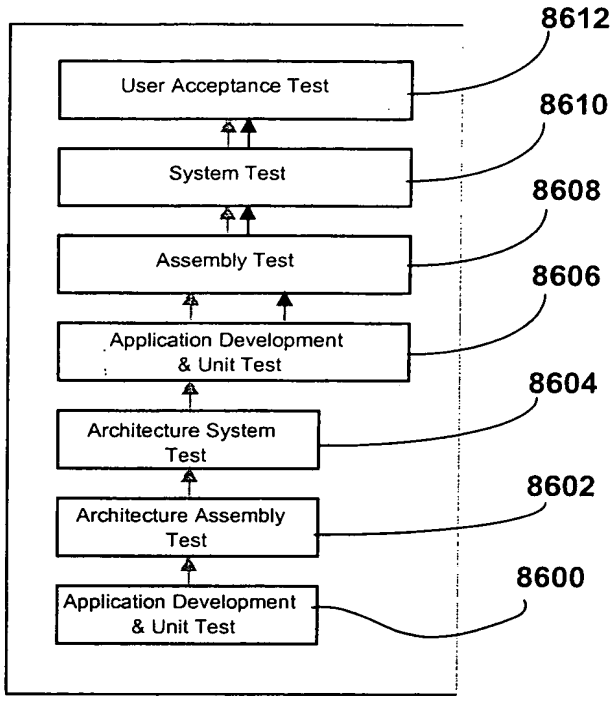

8612
User Acceptance Test
8610
System Test
8608
Assembly Test
8606
Application Development & Unit Test
8604
Architecture System Test
8602
Architecture Assembly Test
8600
Application Development & Unit Test

Figure 86

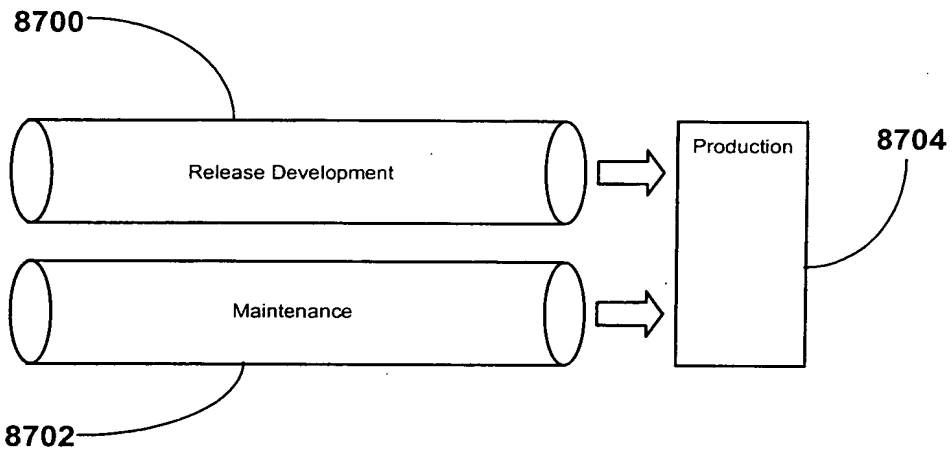

8700
Release Development
Maintenance
8702
Production
8704

Figure 87

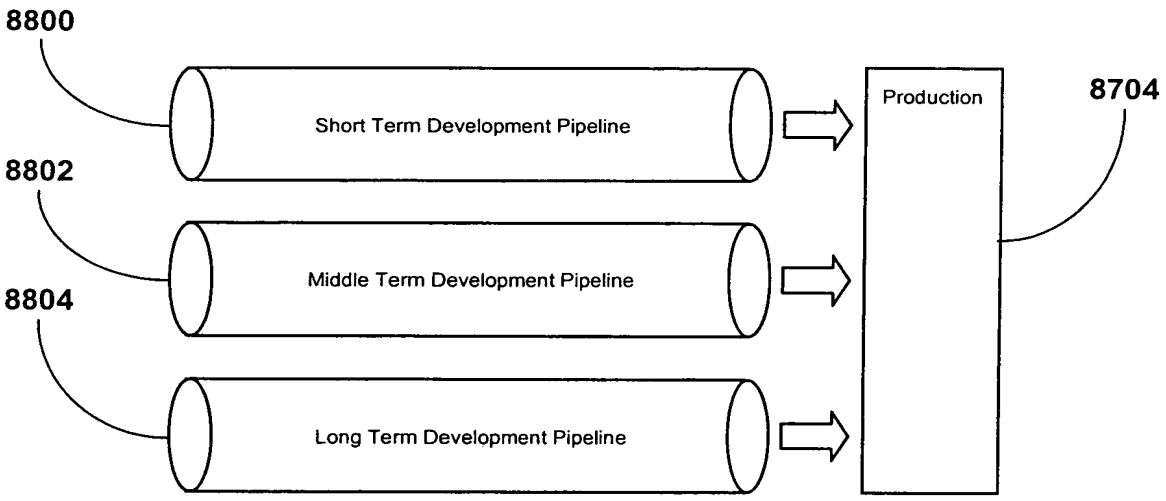

8800
Short Term Development Pipeline
8802
Middle Term Development Pipeline
8804
Long Term Development Pipeline
Production
8704

Figure 88

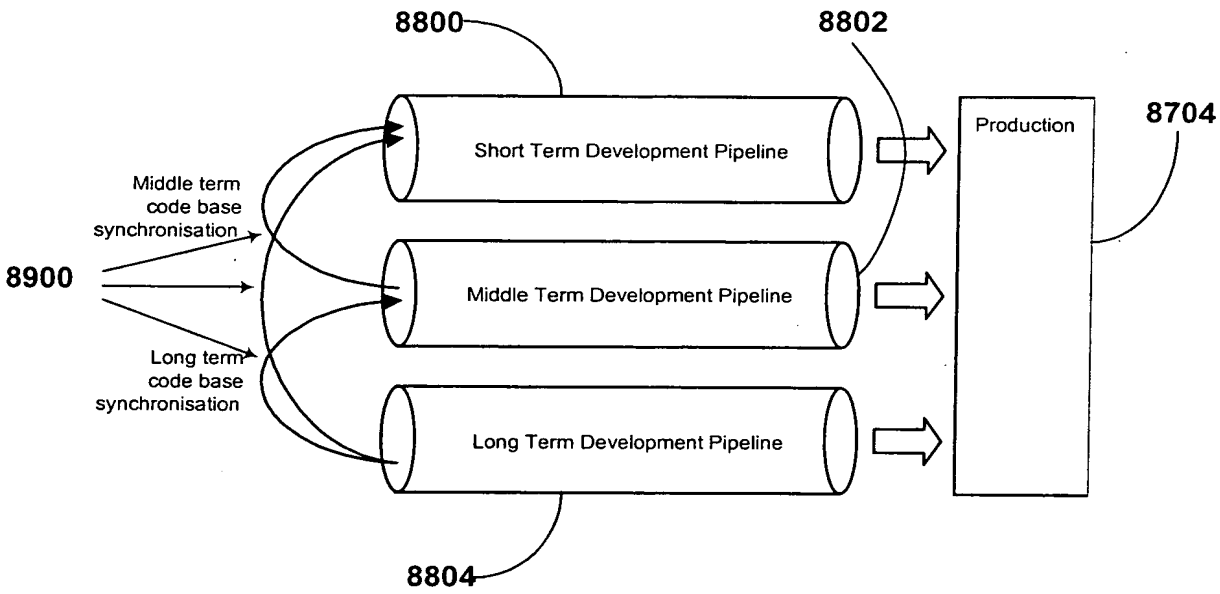

8800
8802
8704
Short Term Development Pipeline
Middle Term Development Pipeline
Long Term Development Pipeline
Production
Middle term code base synchronisation
8900
Long term code base synchronisation
8804

Figure 89

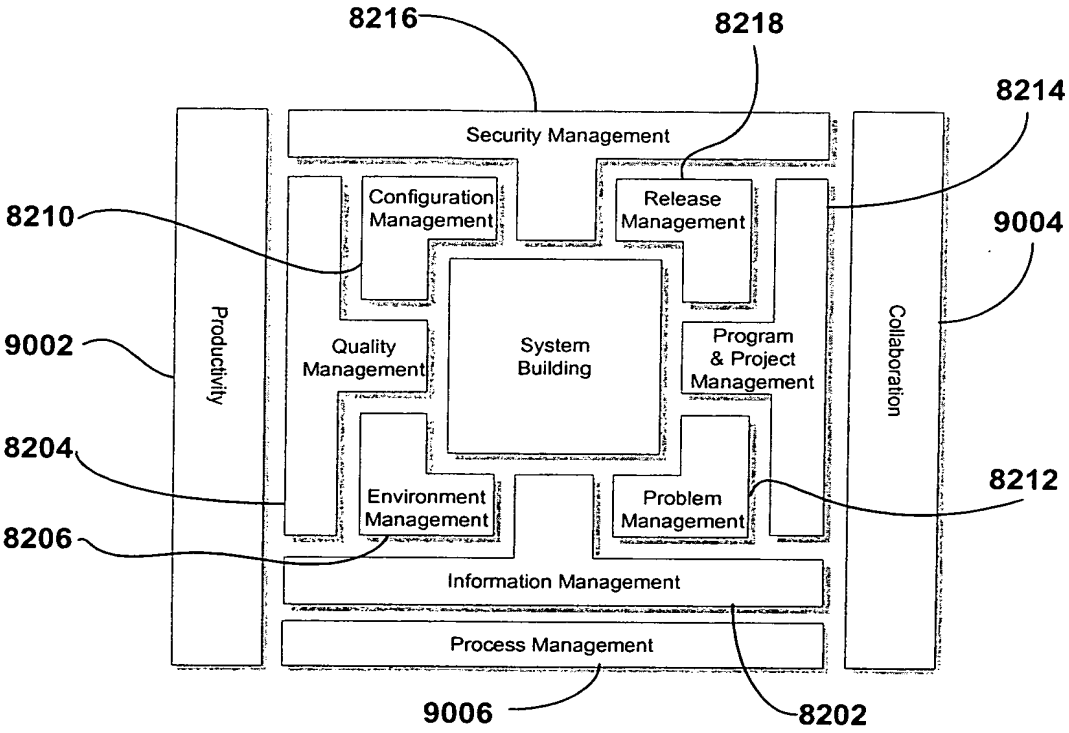

8216
8218
8214
Security Management
8210
Configuration Management
Release Management
9004
Productivity
9002
Quality Management
System Building
Program & Project Management
Collaboration
8204
8212
Environment Management
Problem Management
8206
Information Management
Process Management
9006
8202

Figure 90

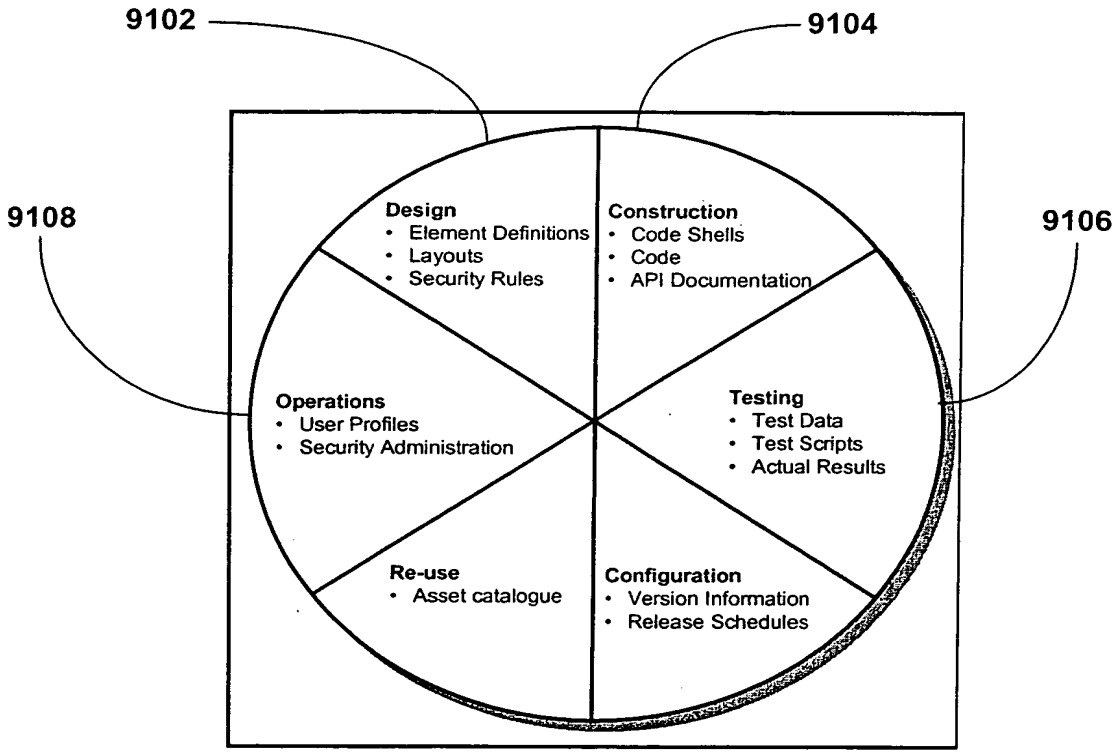

9102
9104
9108
9106
Design
• Element Definitions
• Layouts
• Security Rules
Construction
• Code Shells
• Code
• API Documentation
Operations
• User Profiles
• Security Administration
Testing
• Test Data
• Test Scripts
• Actual Results
Re-use
• Asset catalogue
Configuration
• Version Information
• Release Schedules

Figure 91

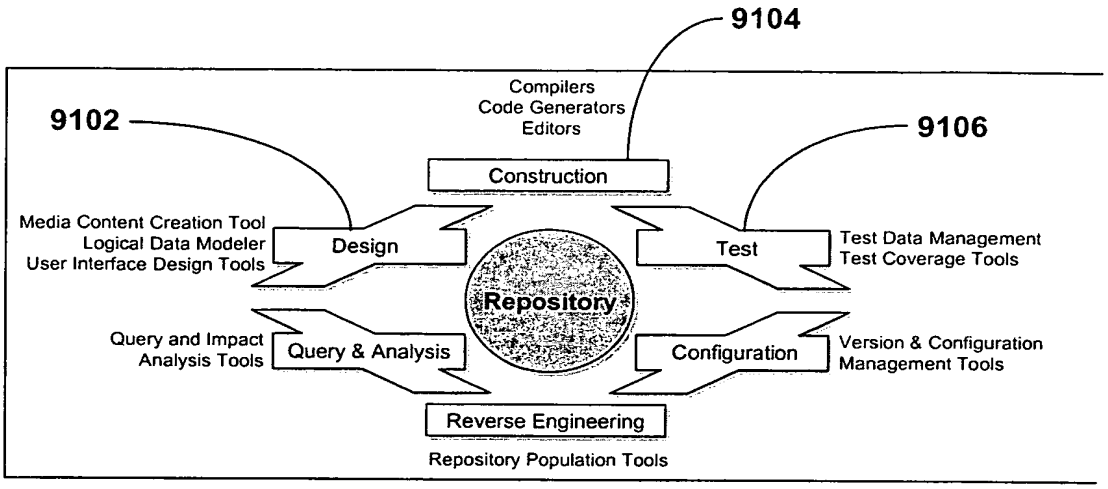

9104
Compilers
Code Generators
Editors
9102
9106
Construction
Media Content Creation Tool
Logical Data Modeler
User Interface Design Tools
Design
Test
Test Data Management
Test Coverage Tools
Repository
Query and Impact
Analysis Tools
Query & Analysis
Configuration
Version & Configuration
Management Tools
Reverse Engineering
Repository Population Tools

Figure 92

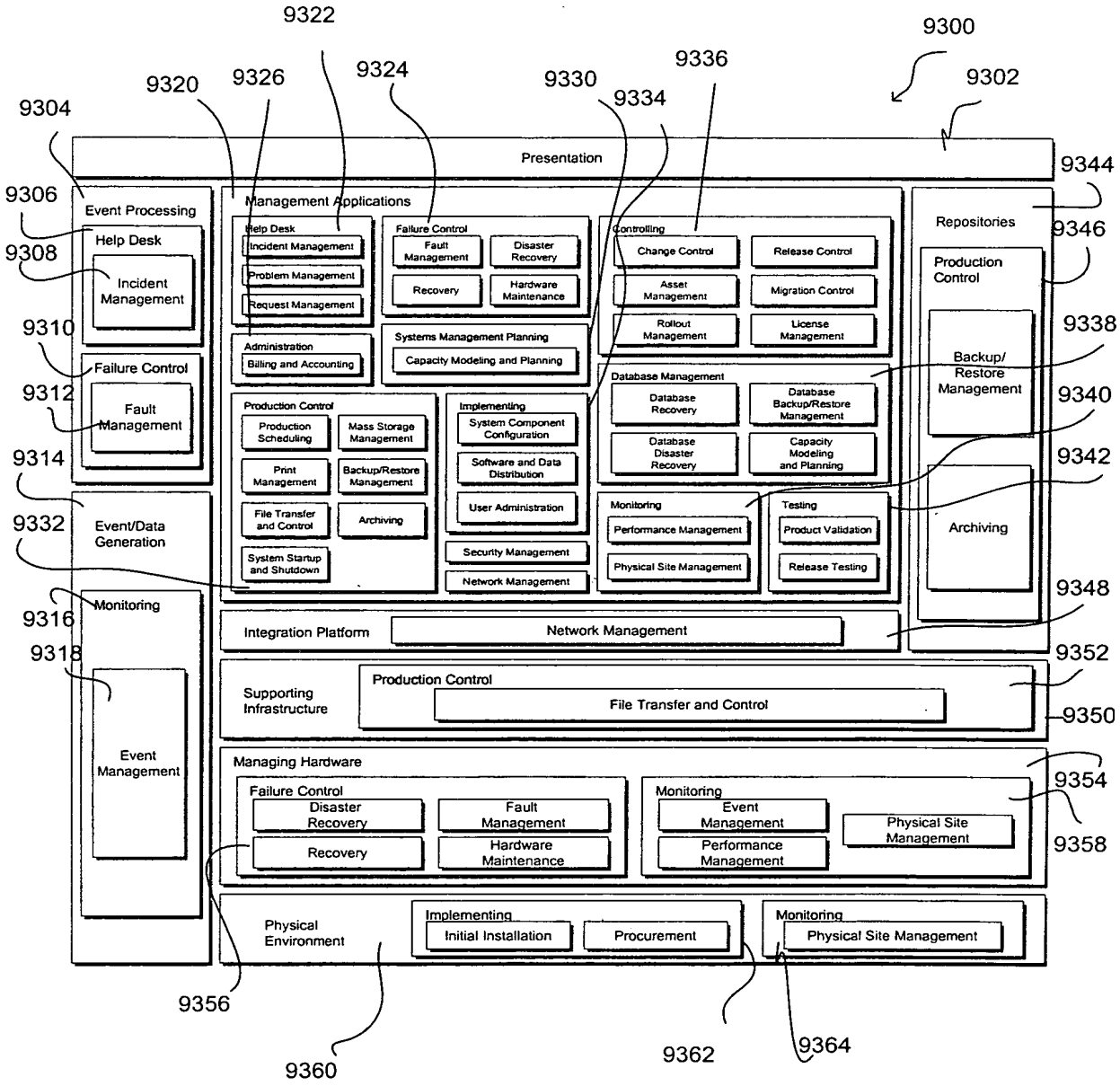

9322
9300
9320
9326
9324
9330
9336
9334
9302
9304
Presentation
9344
9306
Event Processing
Management Applications
Repositories
Help Desk
Incident Management
Problem Management
Request Management
Failure Control
Fault Management
Disaster Recovery
Recovery
Hardware Maintenance
Controlling
Change Control
Release Control
Asset Management
Migration Control
Rollout Management
License Management
9346
9308
Incident Management
Production Control
9310
Failure Control
Fault Management
Administration
Billing and Accounting
Systems Management Planning
Capacity Modeling and Planning
9338
Backup/ Restore Management
9312
Database Management
Database Recovery
Database Backup/Restore Management
Database Disaster Recovery
Capacity Modeling and Planning
9340
Production Control
Production Scheduling
Mass Storage Management
Print Management
Backup/Restore Management
File Transfer and Control
Archiving
System Startup and Shutdown
Implementing
System Component Configuration
Software and Data Distribution
User Administration
Security Management
Network Management
9314
9342
Event/Data Generation
Monitoring
Performance Management
Physical Site Management
Testing
Product Validation
Release Testing
9332
Archiving
9348
9316
Monitoring
9318
Integration Platform
Network Management
9352
Supporting Infrastructure
Production Control
File Transfer and Control
9350
Event Management
Managing Hardware
9354
Failure Control
Disaster Recovery
Fault Management
Recovery
Hardware Maintenance
Monitoring
Event Management
Performance Management
Physical Site Management
9358
Physical Environment
Implementing
Initial Installation
Procurement
Monitoring
Physical Site Management
9356
9360
9362
9364

Figure 93

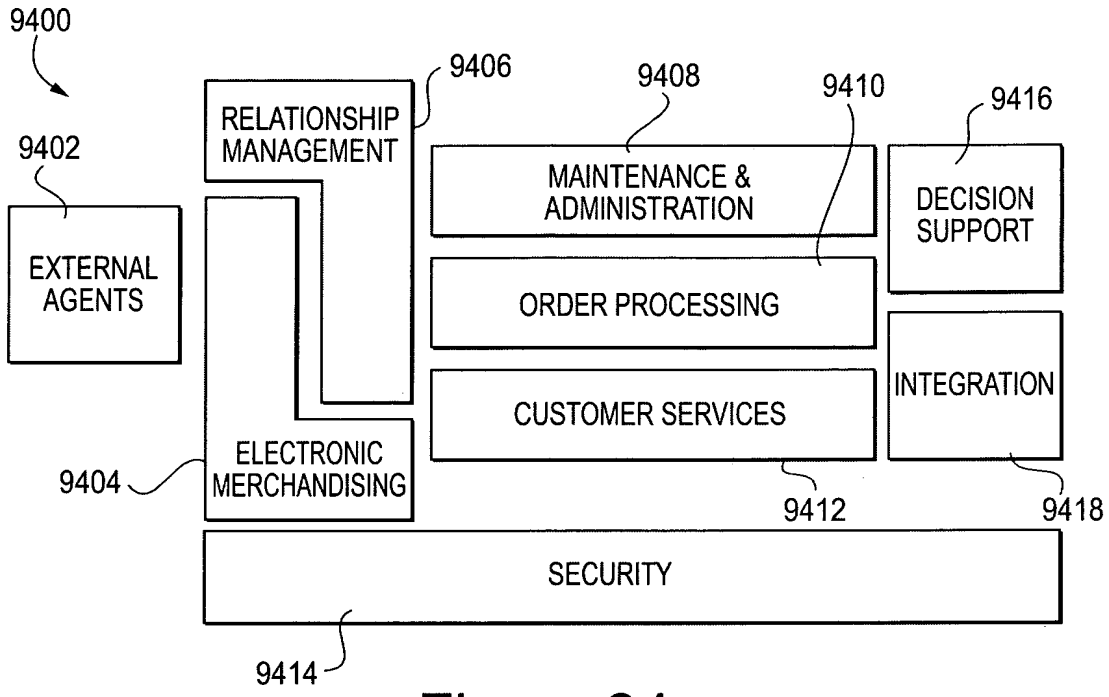


Figure 94

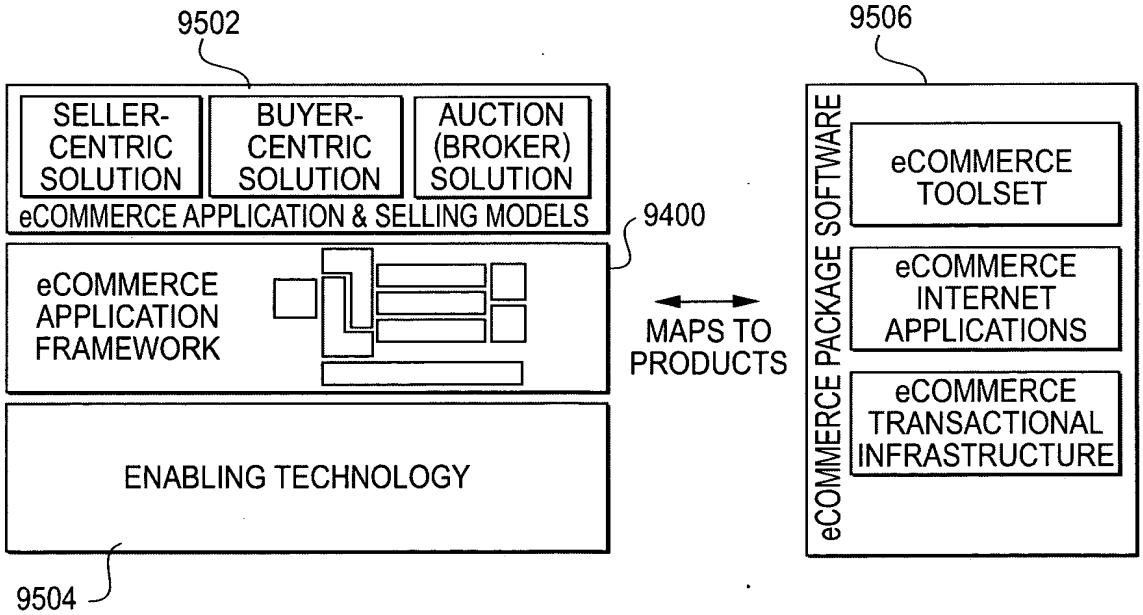


Figure 95

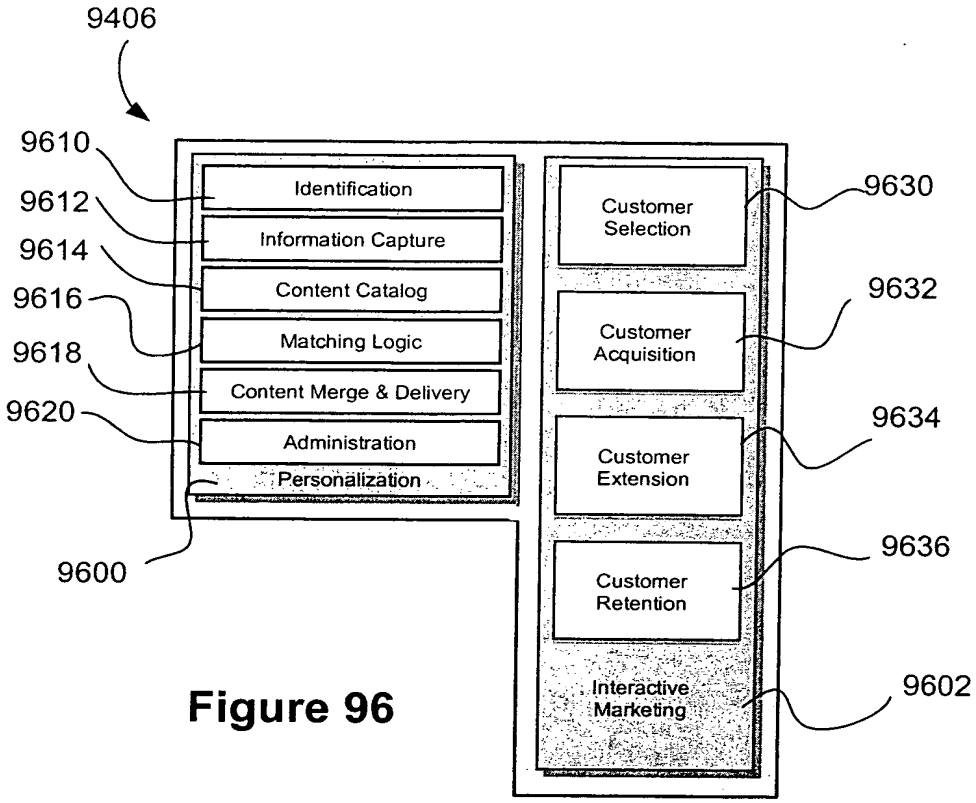


Figure 96

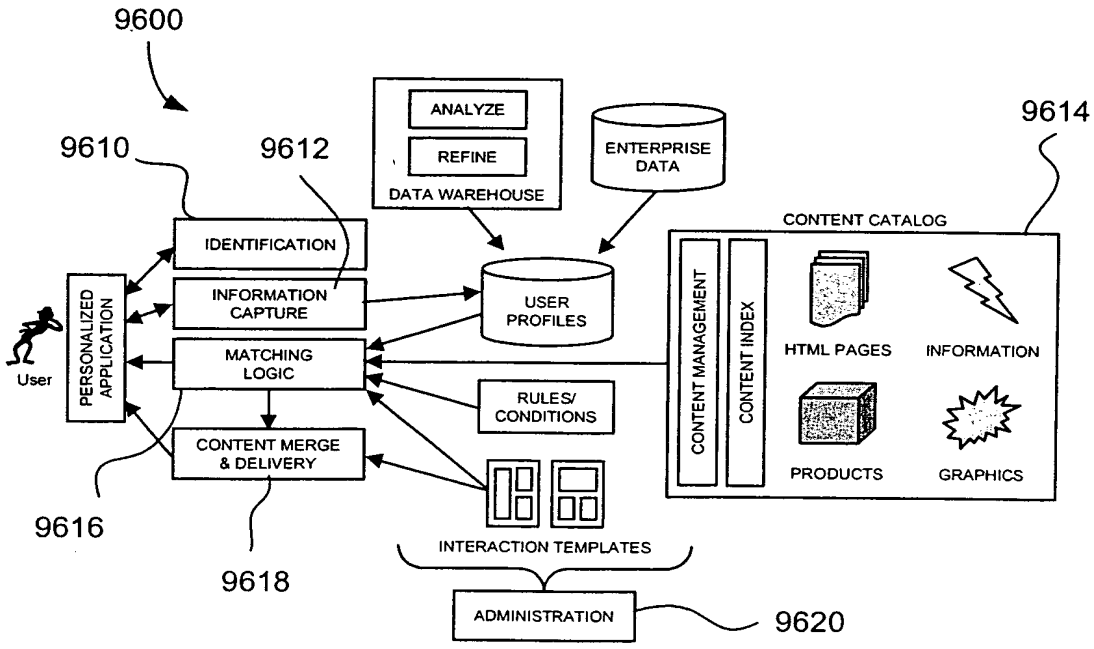


Figure 97

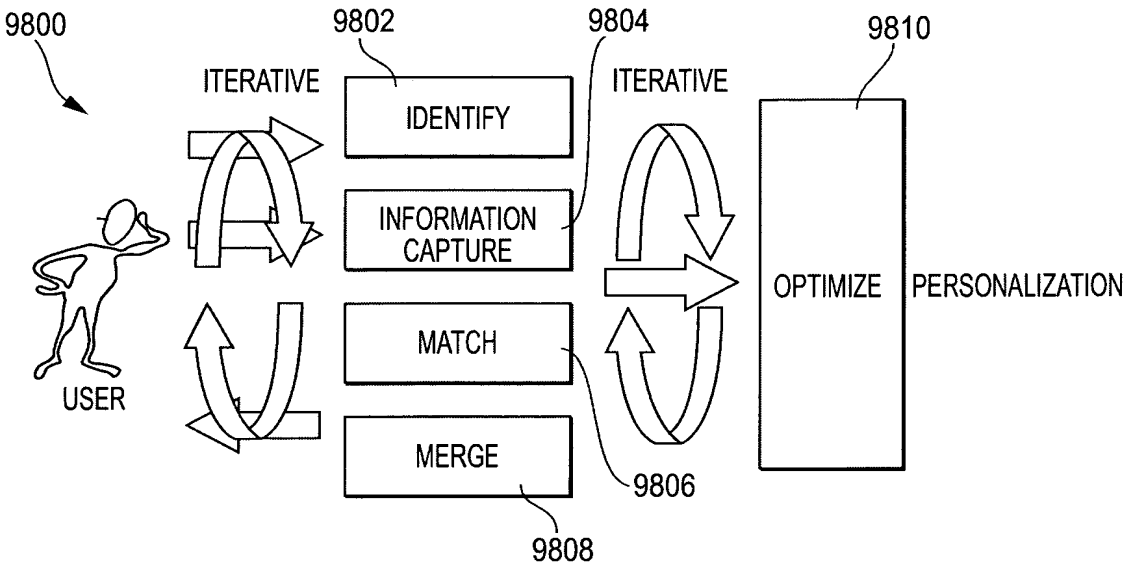


Figure 98

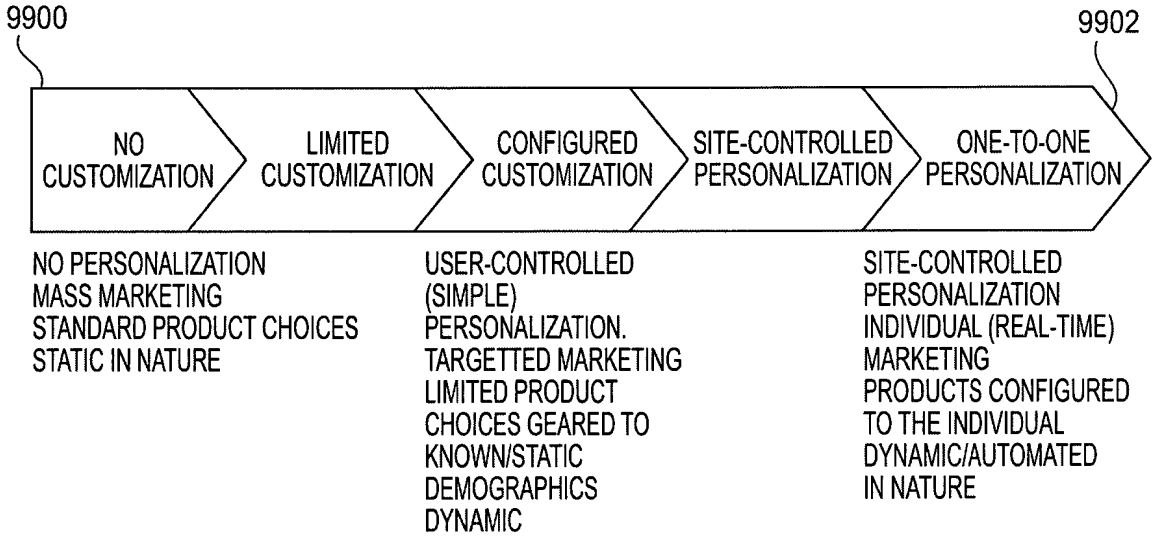


Figure 99

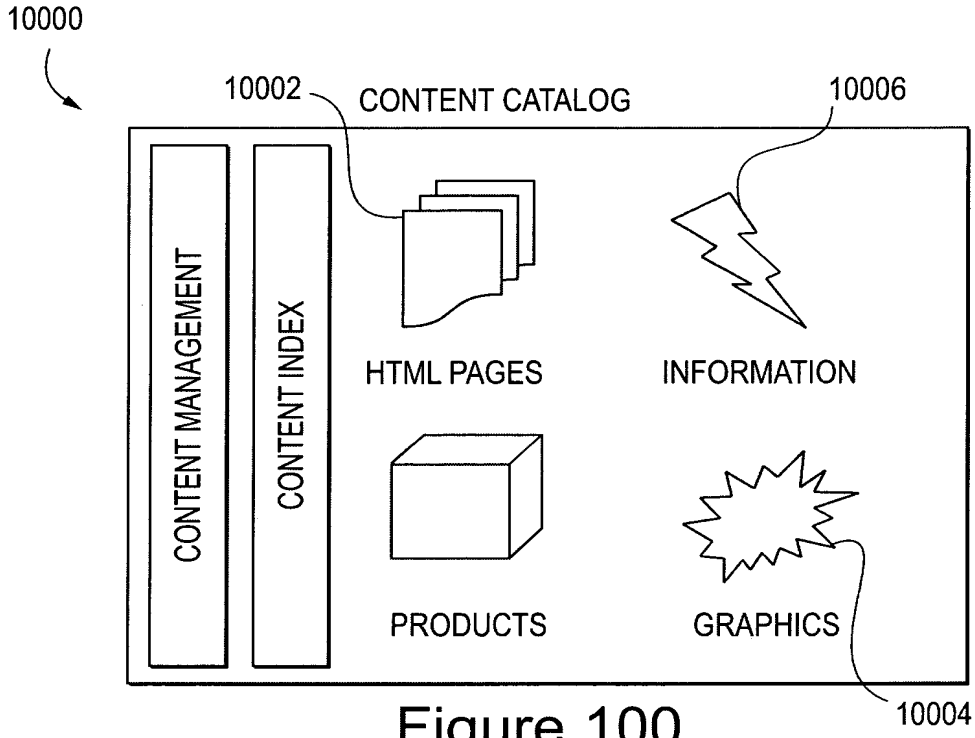


Figure 100

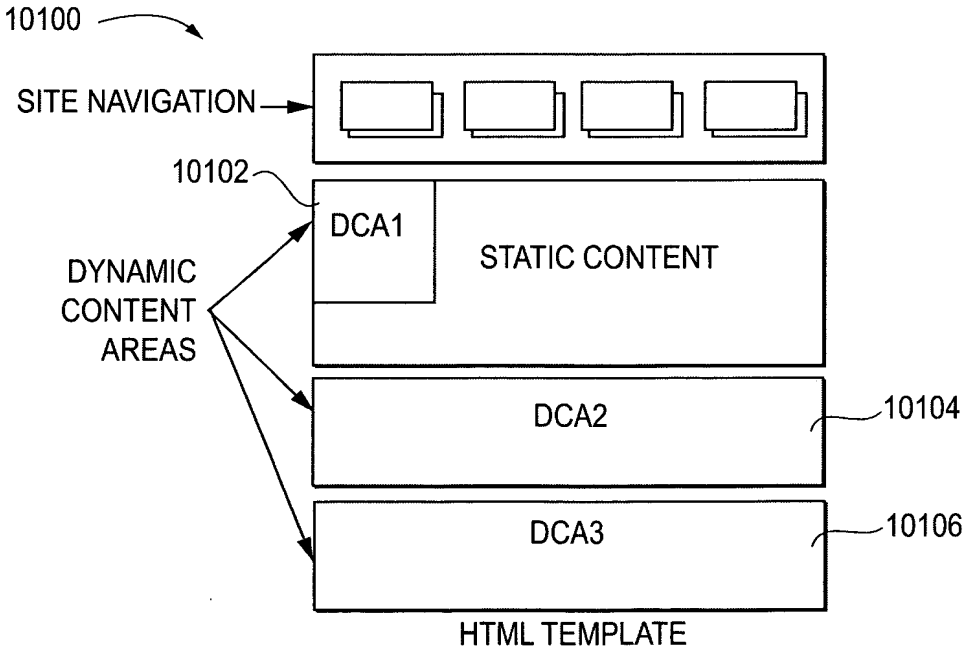


Figure 101

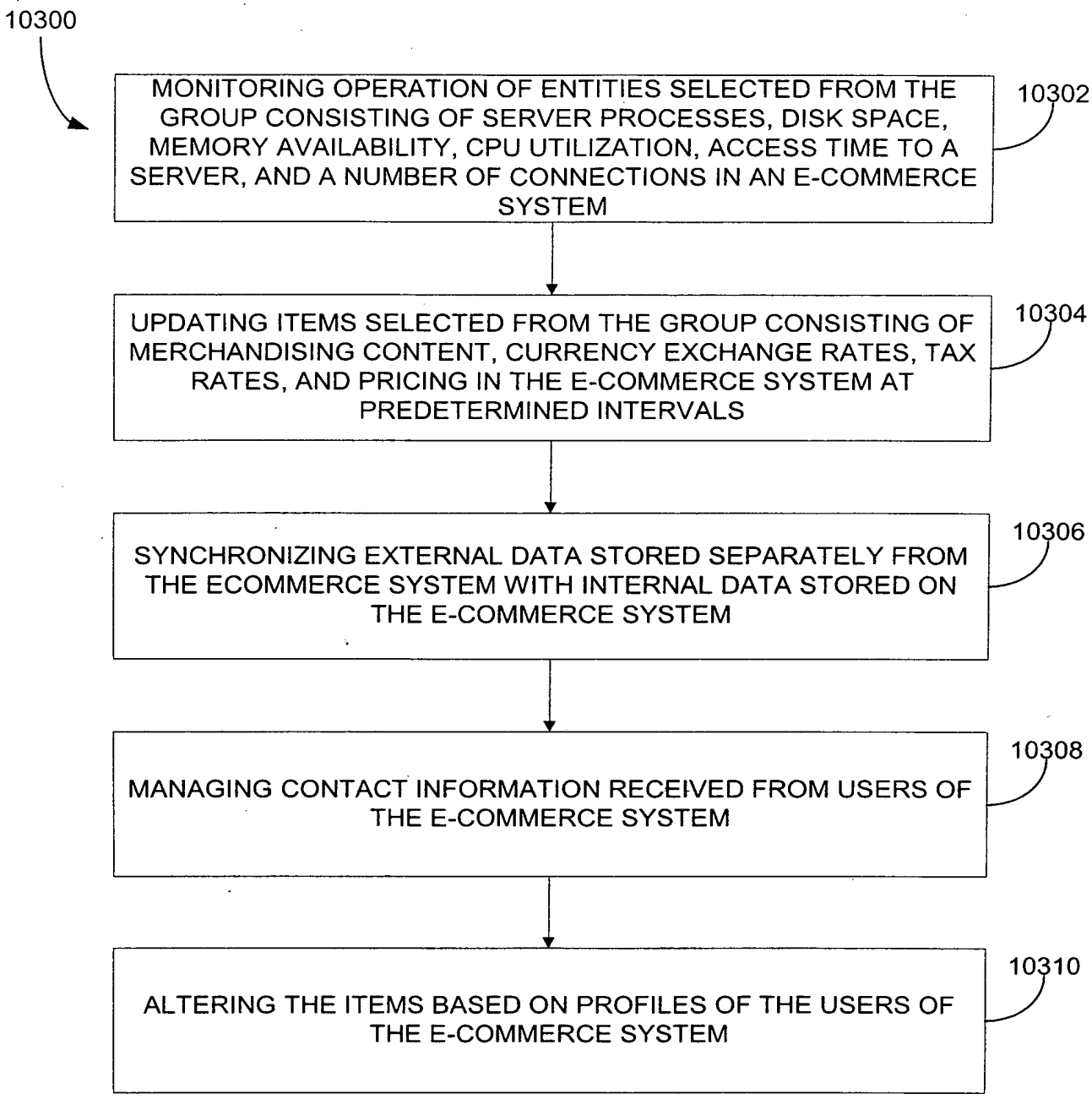

10300
MONITORING OPERATION OF ENTITIES SELECTED FROM THE GROUP CONSISTING OF SERVER PROCESSES, DISK SPACE, MEMORY AVAILABILITY, CPU UTILIZATION, ACCESS TIME TO A SERVER, AND A NUMBER OF CONNECTIONS IN AN E-COMMERCE SYSTEM
10302
UPDATING ITEMS SELECTED FROM THE GROUP CONSISTING OF MERCHANDISING CONTENT, CURRENCY EXCHANGE RATES, TAX RATES, AND PRICING IN THE E-COMMERCE SYSTEM AT PREDETERMINED INTERVALS
10304
SYNCHRONIZING EXTERNAL DATA STORED SEPARATELY FROM THE ECOMMERCE SYSTEM WITH INTERNAL DATA STORED ON THE E-COMMERCE SYSTEM
10306
MANAGING CONTACT INFORMATION RECEIVED FROM USERS OF THE E-COMMERCE SYSTEM
10308
ALTERING THE ITEMS BASED ON PROFILES OF THE USERS OF THE E-COMMERCE SYSTEM
10310

Figure 103

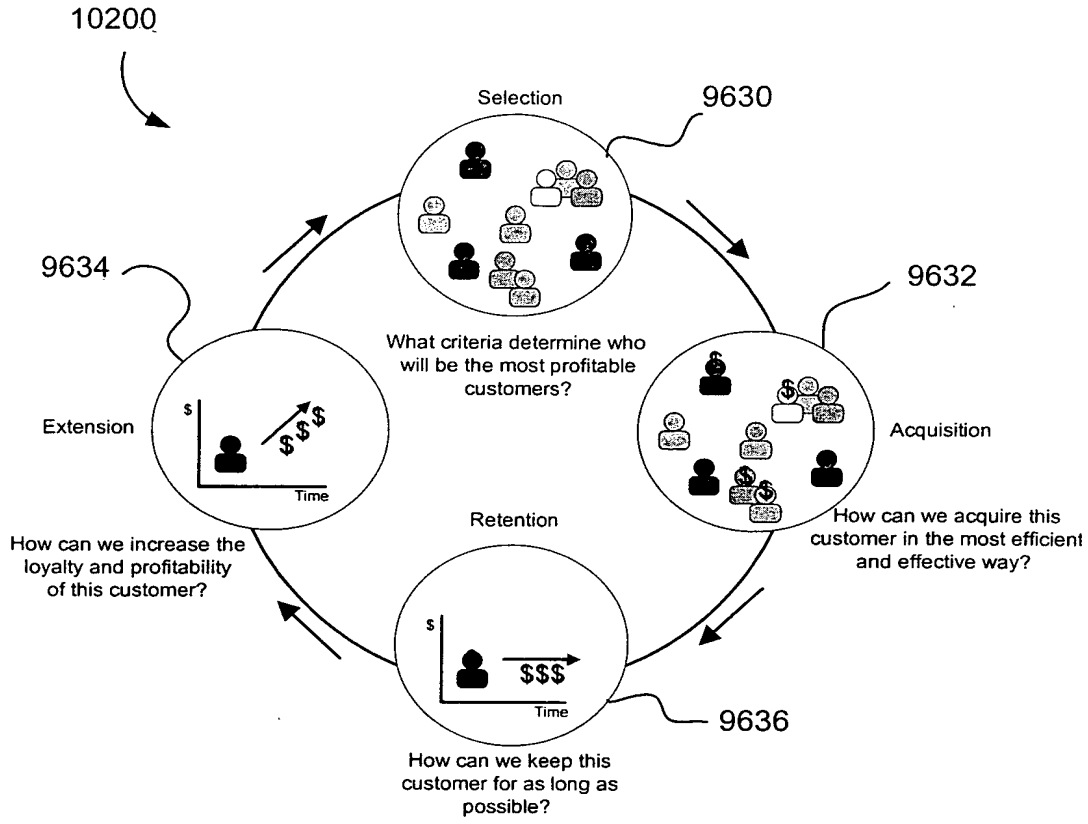


Figure 102

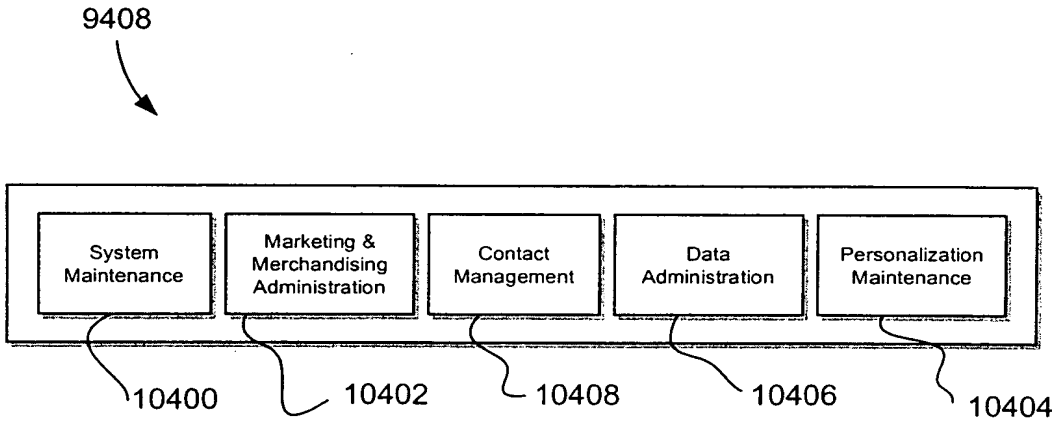


Figure 104

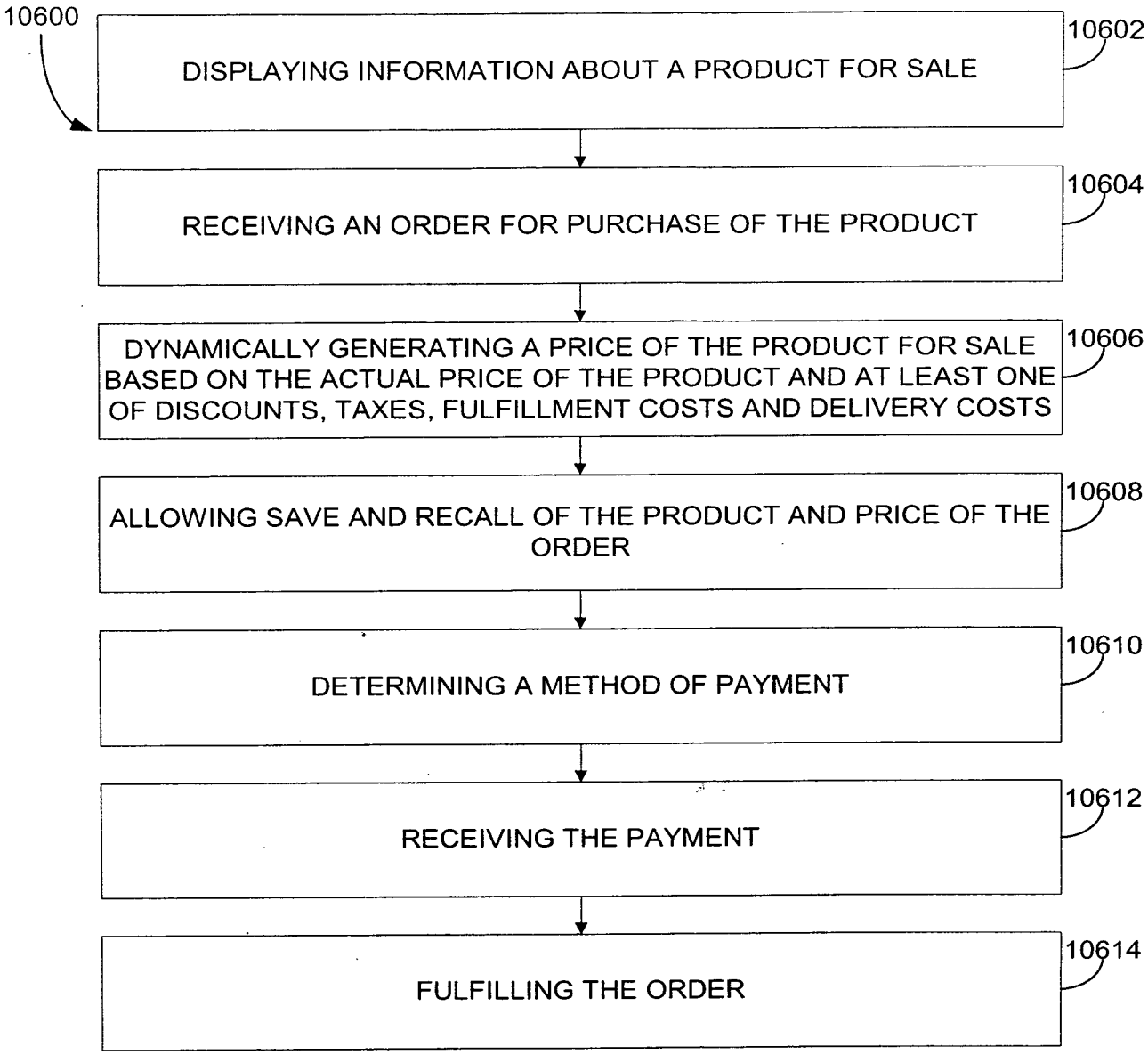

10600
DISPLAYING INFORMATION ABOUT A PRODUCT FOR SALE
10602
RECEIVING AN ORDER FOR PURCHASE OF THE PRODUCT
10604
DYNAMICALLY GENERATING A PRICE OF THE PRODUCT FOR SALE BASED ON THE ACTUAL PRICE OF THE PRODUCT AND AT LEAST ONE OF DISCOUNTS, TAXES, FULFILLMENT COSTS AND DELIVERY COSTS
10606
ALLOWING SAVE AND RECALL OF THE PRODUCT AND PRICE OF THE ORDER
10608
DETERMINING A METHOD OF PAYMENT
10610
RECEIVING THE PAYMENT
10612
FULFILLING THE ORDER
10614

Figure 106

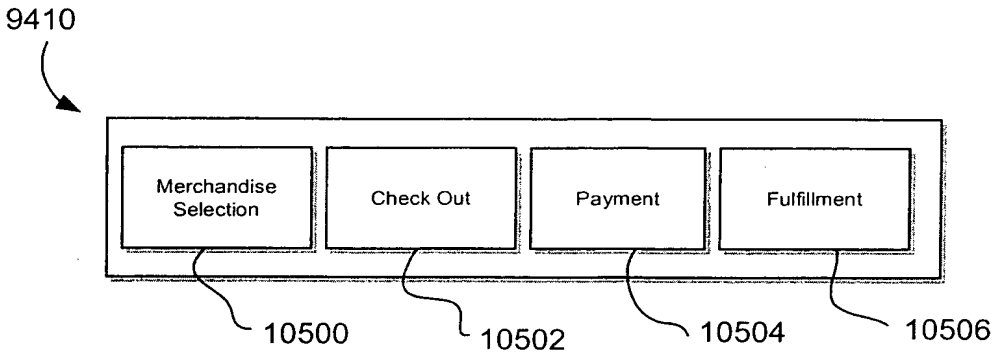


Figure 105

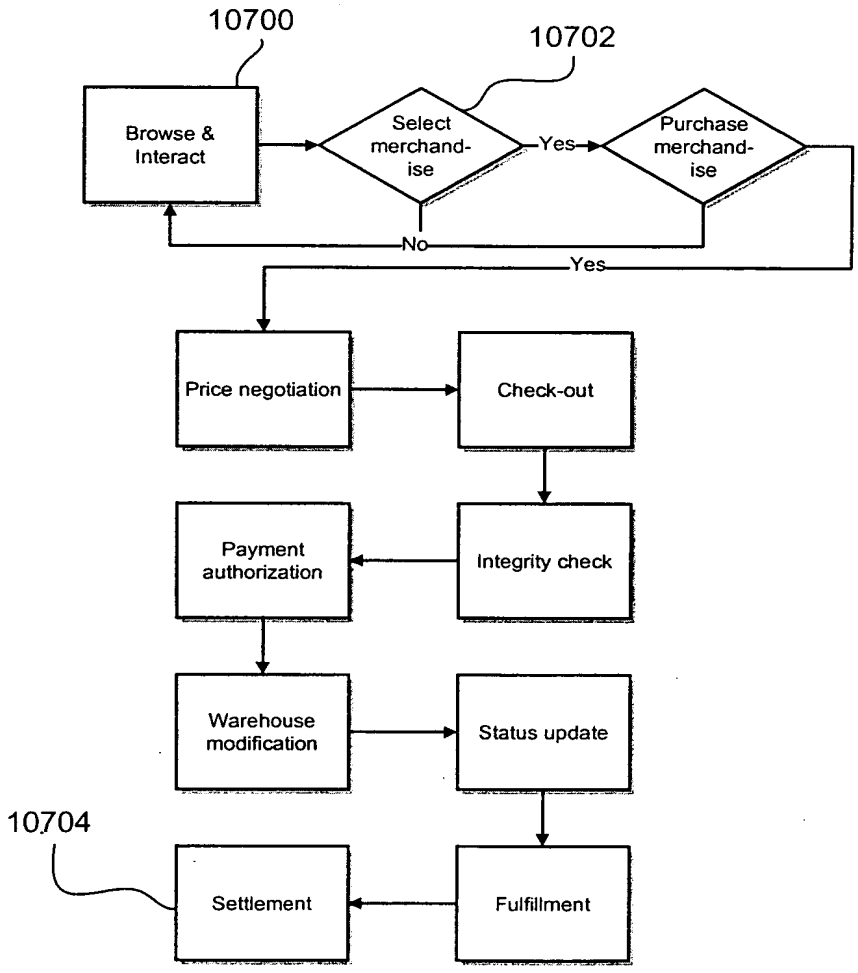


Figure 107

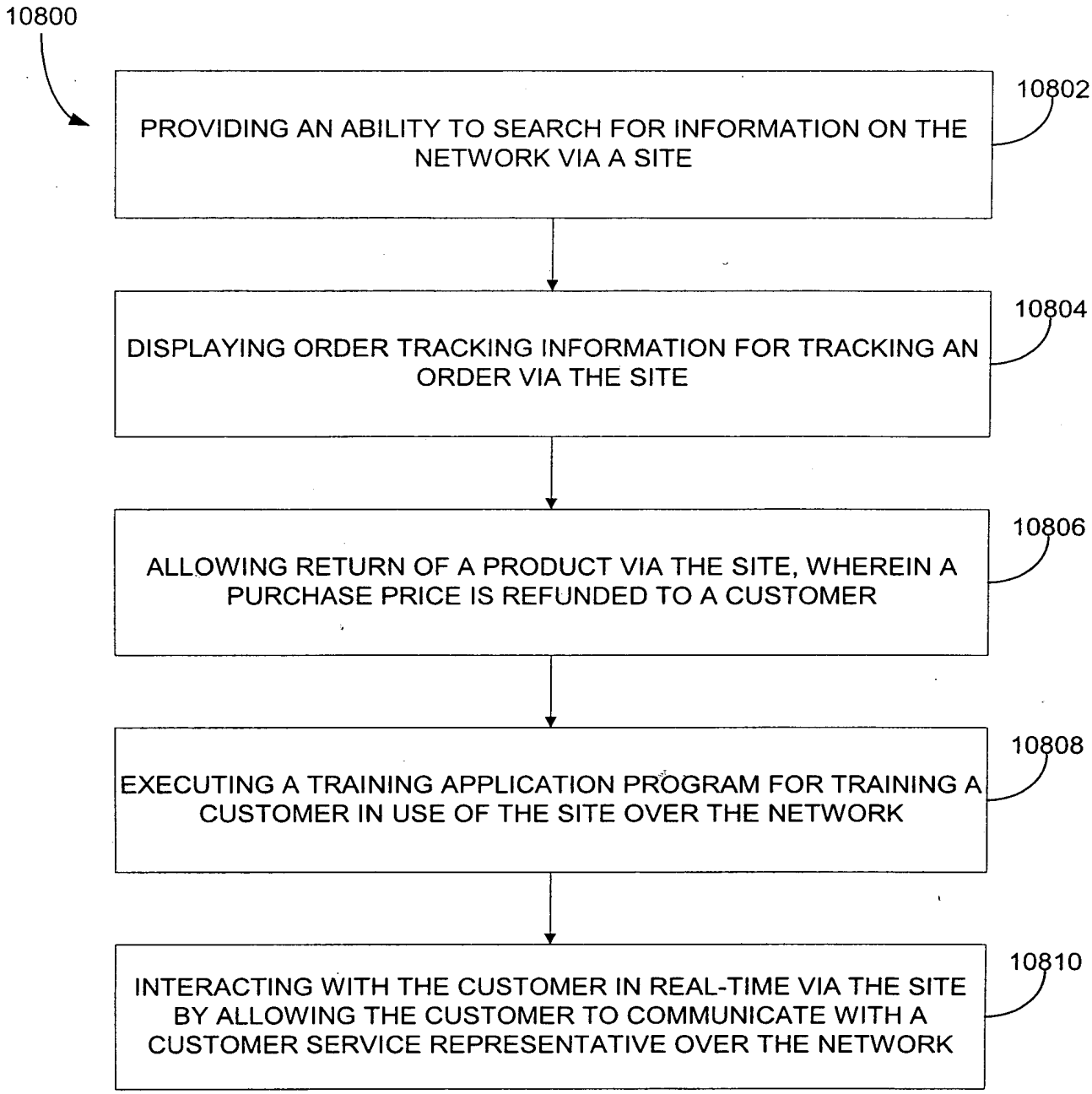

10800
PROVIDING AN ABILITY TO SEARCH FOR INFORMATION ON THE NETWORK VIA A SITE
10802
DISPLAYING ORDER TRACKING INFORMATION FOR TRACKING AN ORDER VIA THE SITE
10804
ALLOWING RETURN OF A PRODUCT VIA THE SITE, WHEREIN A PURCHASE PRICE IS REFUNDED TO A CUSTOMER
10806
EXECUTING A TRAINING APPLICATION PROGRAM FOR TRAINING A CUSTOMER IN USE OF THE SITE OVER THE NETWORK
10808
INTERACTING WITH THE CUSTOMER IN REAL-TIME VIA THE SITE BY ALLOWING THE CUSTOMER TO COMMUNICATE WITH A CUSTOMER SERVICE REPRESENTATIVE OVER THE NETWORK
10810

Figure 108

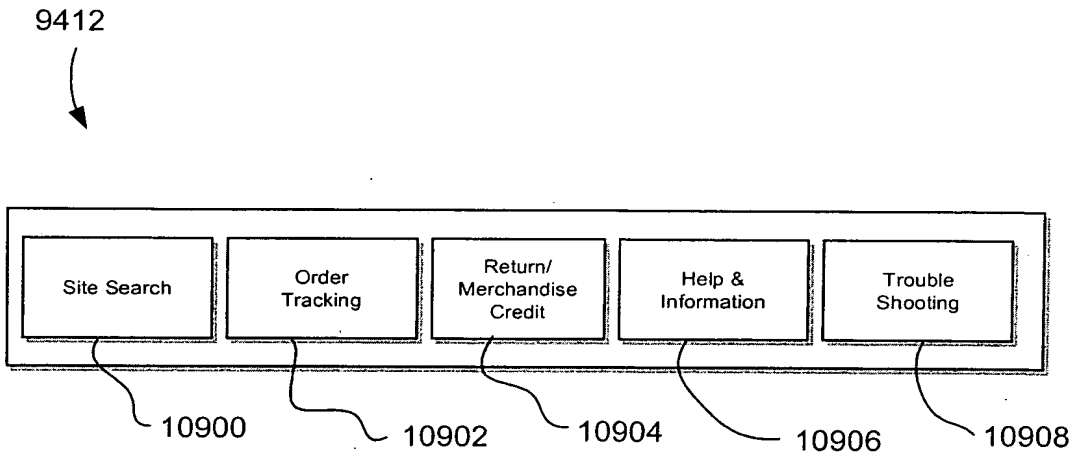


Figure 109

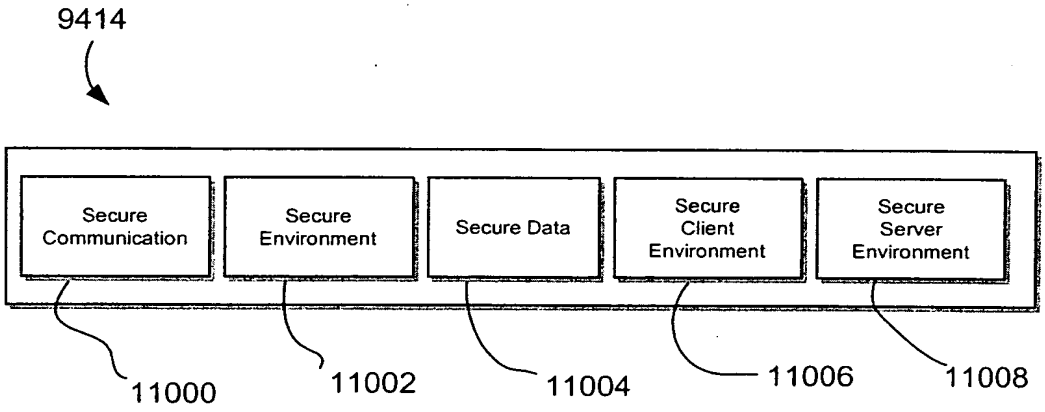


Figure 110

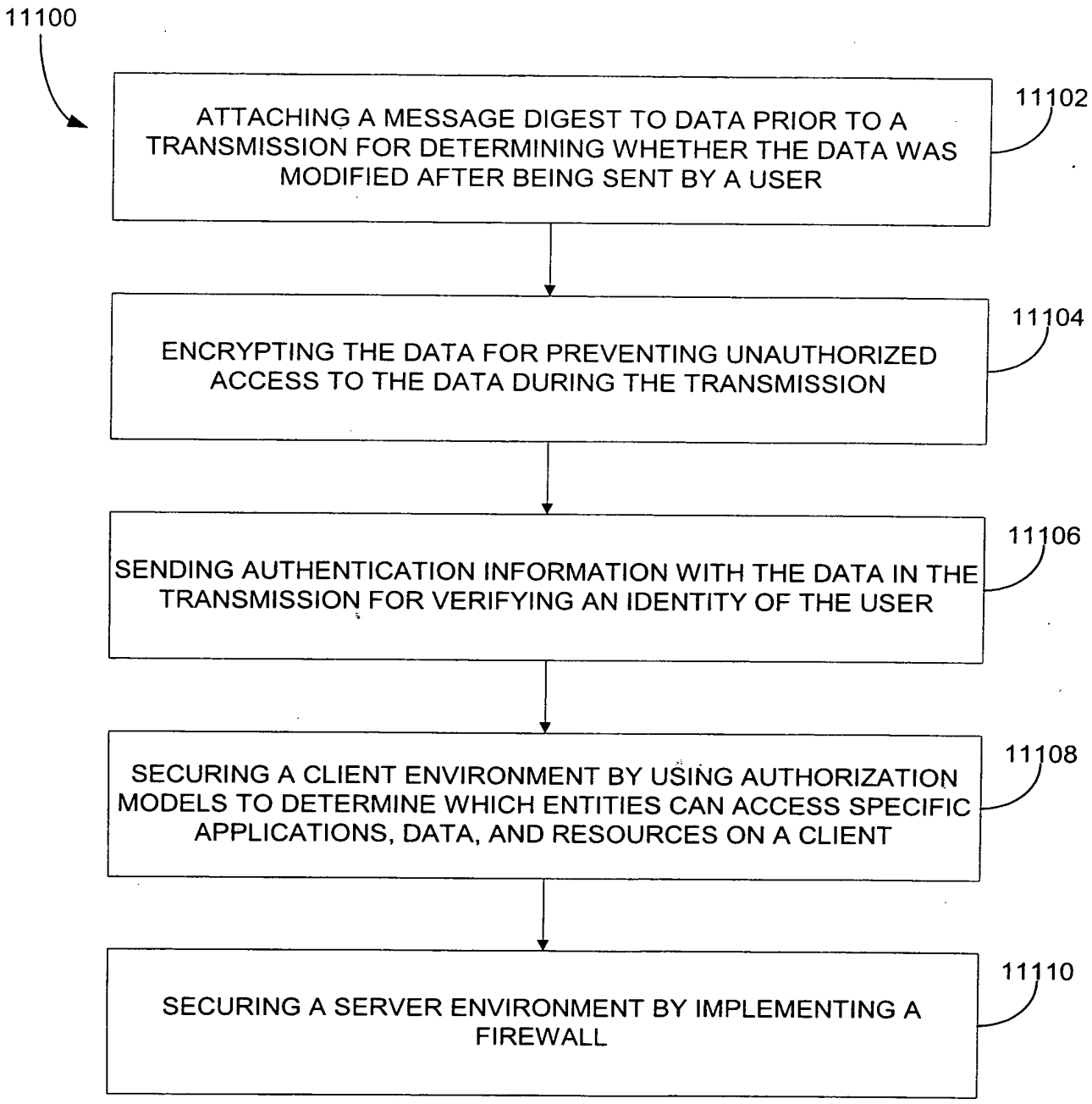

11100
ATTACHING A MESSAGE DIGEST TO DATA PRIOR TO A TRANSMISSION FOR DETERMINING WHETHER THE DATA WAS MODIFIED AFTER BEING SENT BY A USER
11102
ENCRYPTING THE DATA FOR PREVENTING UNAUTHORIZED ACCESS TO THE DATA DURING THE TRANSMISSION
11104
SENDING AUTHENTICATION INFORMATION WITH THE DATA IN THE TRANSMISSION FOR VERIFYING AN IDENTITY OF THE USER
11106
SECURING A CLIENT ENVIRONMENT BY USING AUTHORIZATION MODELS TO DETERMINE WHICH ENTITIES CAN ACCESS SPECIFIC APPLICATIONS, DATA, AND RESOURCES ON A CLIENT
11108
SECURING A SERVER ENVIRONMENT BY IMPLEMENTING A FIREWALL
11110

Figure 111